

SPECIFICATION SHEET NO.	S1022 – DSK16L0000S060	
ORIGINAL MFG/PART NO.	 LGE Diodes/DSK16-L	
NEXTGEN PART CODE	DSK16L0000S060	Indicate This Code For RFQ /Order
DATE	Oct. 22, 2025	
REVISION	A4	Updated With Most Recent Data
DESCRIPTION AND MAIN PARAMETRICS	SMD Schottky Rectifiers 2 Pads, Case SOD-123FL, DSK1 L Series, Forward Rectified Current (IO) 1.0A Max. RMS Voltage (VRMS)42V Max. Repetitive Peak Reverse Voltage (VRRM) 60V Max. Operating Junction Temperature Range TJ : -65°C ~+150°C Package in Tape/Reel, 3000pcs/Reel RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)	
CUSTOMER		
CUSTOMER PART NUMBER		
CROSS REF. PART NUMBER		
MEMO		

VENDOR APPROVE		
Issued/Checked/Approved		
		
Effective Date: Oct. 22, 2025		

CUSTOMER APPROVE
Date:

MAIN FEATURE

- Low Profile Surface Mounted Application in Order to Optimize Board Space
- Low Power Loss, High Efficiency.
- Low Forward Voltage Drop.
- High Surge Capability.
- Ultrafast Reverse Recovery Time.
- High Temperature Soldering: 260°C/10 Seconds at Terminals.
- Meet MSL 1 Requirement
- Cross Competitors Parts and More.
- RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)



Image shown is a representation only. Exact specifications should be obtained from the product dimension.



APPLICATION

- For SMD Application

ELECTRICAL CHARACTERISTICS

- See Page 5 ~ Page 6.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.

HOW TO ORDER

- Please Follow Up Part Code Guide And Indicate NextGen Part Code DSK16L0000S060 For RFQ and Order.

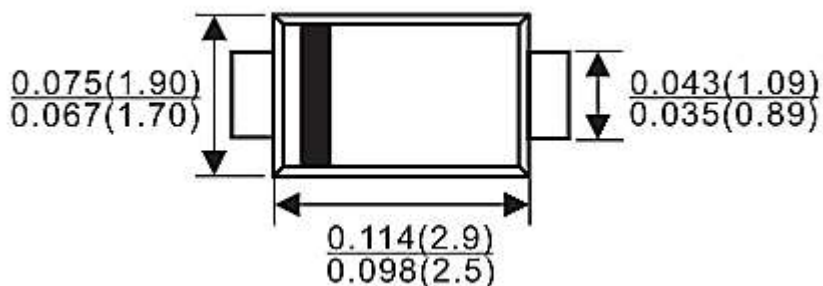
PART CODE GUIDE

RFQ
[Request For Quotation](#)

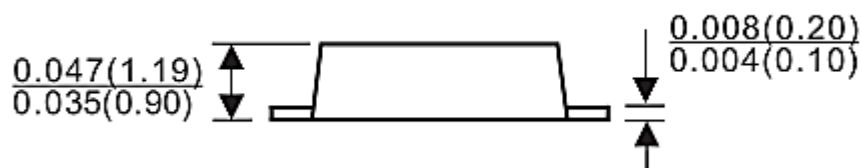
CODE	NAME	KEY SPECIFICATION OPTION
DSK1	Product Series Code	SMD Schottky Rectifier, DSK1 Series, Forward Current 1.0A, DSK L series
6	Max. Repetitive Peak Reverse Voltage Code	2: 20V; 3: 30V; 4: 40V; 5: 50V; 6: 60V; 7: 70V; 8: 80V; 9: 90V; 10: 100V; 15: 150V; 20: 200V.
L0000S	Internal Control Code	Letter A~Z, a-z or Digits (0-9)
060	Max. DC blocking voltage Code	2: 20V; 3: 30V; 4: 40V; 5: 50V; 6: 60V; 7: 70V; 8: 80V; 9: 90V; 10: 100V; 15: 150V; 20: 200V.
XX	Special/Custom Parameters	Blank: N/A; XX: Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters

DIMENSION -- Unit: Inch (mm), Case SOD-123FL Outline

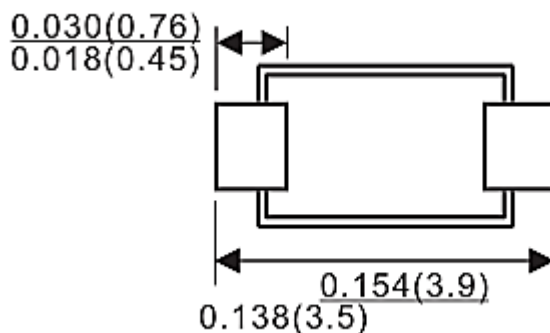
Top View



Side View



Bottom View



MECHANICAL CHARACTERISTICS

CASE	TERMINALS	POLARITY	MOUNTING POSITION	MARKING
JEDEC SOD-123FL Molded Plastic Body Over Passivated Chip	Solder Plated, Solderable Per J-STD-002B And JESD22-B102D	Laser Band Denotes Cathode End	Any	See Marking list

MAX. RATINGS & ELECTRICAL CHARACTERISTICS

- Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER	CONDITION	SYMBOL	VALUE			UNITS
			MIN.	TYP.	MAX.	
Maximum Average Forward Rectified Current		I _{AV}			1.0	A
Peak Forward Surge Current	8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC Method)	I _{FSM}			25	A
Operating Junction Temperature Range	@ V _{RRM} 20V ~60V	T _J	-65		+150	°C
	@ V _{RRM} 70V ~200V		-65		+175	
Storage Temperature Range		T _{STG}	-65		+175	°C

ELECTRICAL CHARACTERISTICS - Ta=25°C unless otherwise specified

PART CODE	Max. Repetitive Peak Reverse Voltage	Max. RMS Voltage	Max. DC Blocking Voltage	Max. Forward Voltage @ 1.0A	Max. DC Reverse Current @ Rated DC Blocking Voltage		Typical Junction Capacitance (Note 1)	M a r k i n g L i s t
					@ TA= 25 °C	@ TA= 100 °C		
	V RRM	V RMS	V DC	V F	I R		CJ	
	V	V	V	V	mA		pF	
DSK12L0000S030	20	14	20	0.55	0.5	10	110	K12
DSK13L0000S030	30	21	30	0.55	0.5	10	110	K13
DSK14L0000S040	40	28	40	0.55	0.5	10	110	K14
DSK15L0000S050	50	35	50	0.70	0.5	10	80	K15
DSK16L0000S060	60	42	60	0.70	0.5	10	80	K16
DSK17L0000S070	70	49	70	0.85	0.5	5	80	K17
DSK18L0000S080	80	56	80	0.85	0.5	5	80	K18
DSK19L0000S090	90	63	90	0.85	0.5	5	80	K19
DSK110L000S100	100	70	100	0.85	0.5	5	80	K110
DSK115L000S150	150	105	150	0.85	0.2	2	80	K115
DSK120L000S200	200	140	200	0.95	0.2	2	80	K120

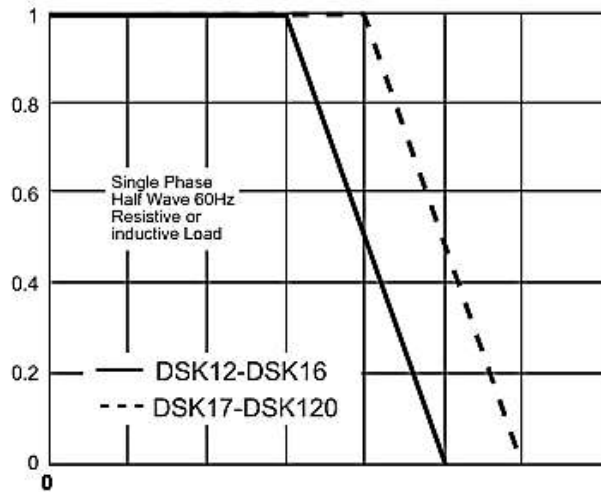
Note:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTICS CURVES- For Reference Only, Ta=25°C Unless Otherwise Specified.

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

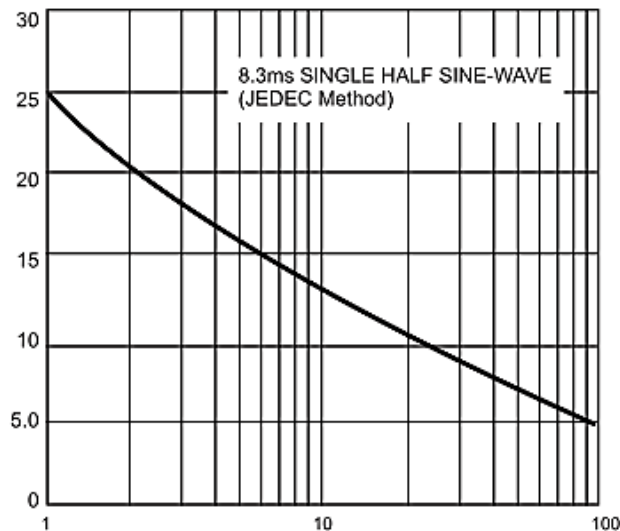
FIG. 1- FORWARD CURRENT DERATING CURVE



AMBIENT TEMPERATURE, °C

PEAK FORWARD SURGE CURRENT,
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

RATINGS AND CHARACTERISTICS CURVES- For Reference Only, Ta=25°C Unless Otherwise Specified.

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

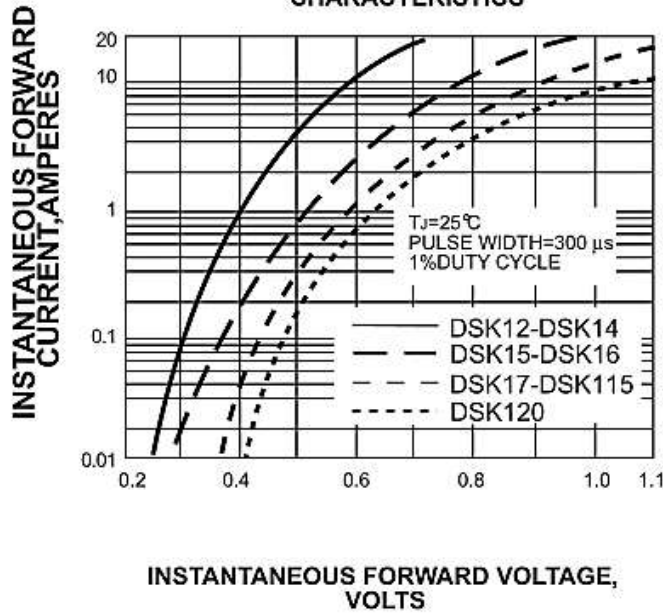
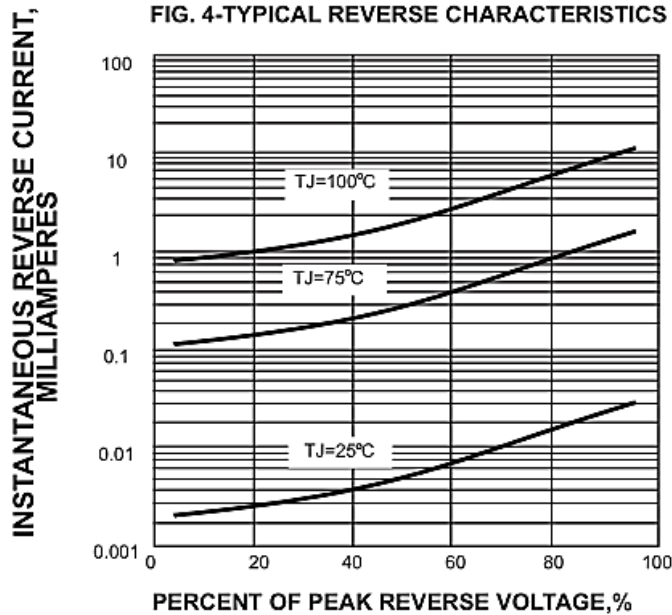
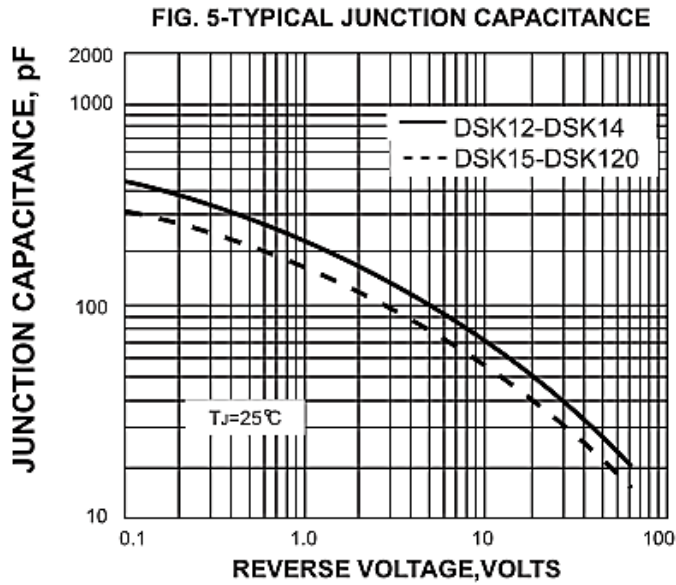
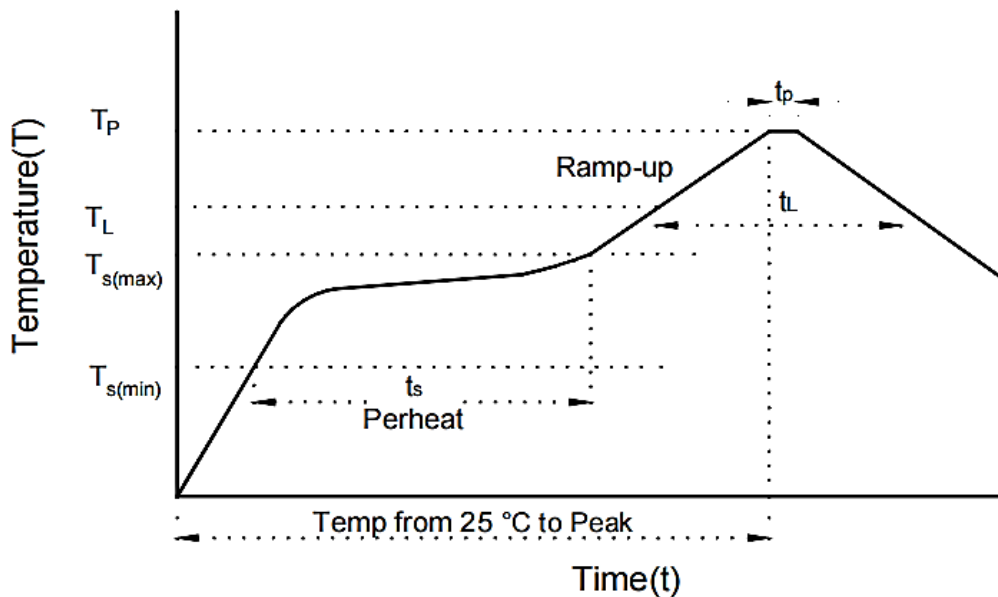


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



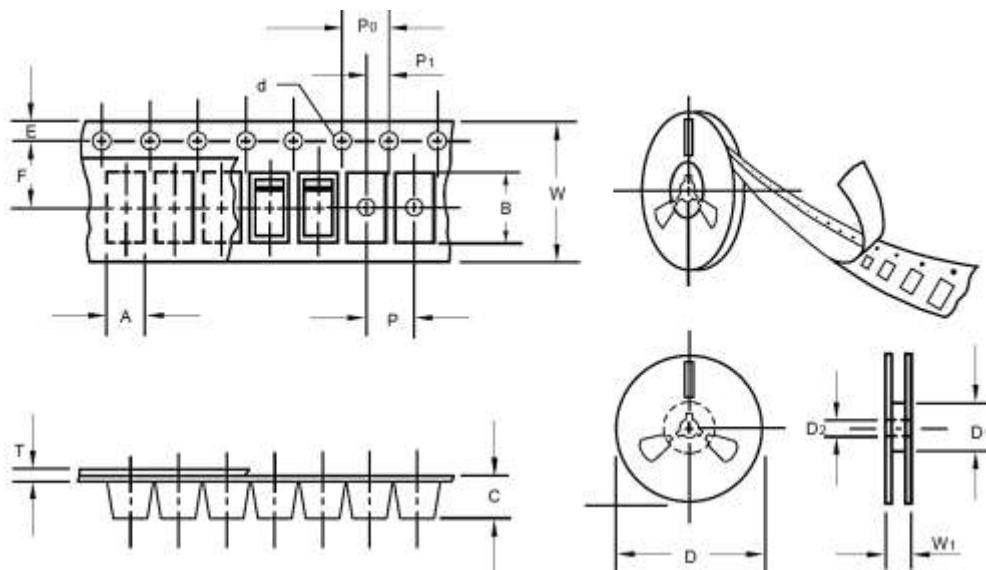
RATINGS AND CHARACTERISTICS CURVES- For Reference Only, Ta=25°C Unless Otherwise Specified.



SUGGESTED REFLOW PROFILE - For Reference Only


PROFILE FEATURE		PB-FREE ASSEMBLY
Average Ramp-up Rate (T_L Max to T_p)		3°C/second Max
Preheat	Temperature Min (T_s Min.)	150°C
	Temperature Max (T_s Max.)	200°C
	Time (t_s Min. to t_s Max.)	60 ~ 180 seconds
Time maintained above	Temperature (T_L)	217°C
	Time (t_L)	60 ~ 150 seconds
Peak/Classification Temperature (T_p)		260 °C
Time within 5°C of actual Peak Temperature (t_p)		10 seconds Max.
Ramp-down Rate		6 °C /Second Max.
Time 25 °C to Peak Temperature		8 Minutes Max.
Suggest reflow times		3 Times Max.

TAPE/REEL - Unit: mm, All Devices are packed in accordance with EIA standard RS-481-A and specifications



ITEM	SYMBOL	TOLERANCE	SOD-123FL
Carrier width	A	0.1	2.1
Carrier Length	B	0.1	4.0
Carrier Depth	C	0.1	1.60
Sprocket hole	d	0.05	1.55
7"Reel outside diameter	D	2	178
7"Reel inner diameter	D1	Min.	50.0
Feed hole diameter	D2	0.5	13
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	3.5
Punch hole pitch	P	0.1	4
Sprocket hole pitch	P0	0.1	4
Embossment center	P1	0.1	2
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	8.15
Reel width	W1	1	10.5
Qty. Per Reel (pcs)	3000		

IMPORTANT NOTES AND DISCLAIMER

1. **ROHS COMPLIANCE:** The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
2. **REACH COMPLIANCE:** REACH substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
3. All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
4. NextGen Component, Inc (*NextGen*) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
5. *NextGen* makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does *NextGen* assume any liability for application assistance or customer product design.
6. *NextGen* does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application. No license is granted by implication or otherwise under any intellectual property rights of NextGen.
7. *NextGen* products are not authorized for use as critical components in life support devices or systems without express written approval by *NextGen*.
8. *NextGen* requires that customers first obtain an RMA (Returned Merchandise Authorization) number prior to returning any products. Returns must be made within 30 days of the date of invoice, be in the original packaging, unused and like-new condition. At the time of quoting or purchasing, a product may say that it is Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable.