SB540(LS)

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 40 Volts FORWARD CURRENT - 5.0 Amperes

FEATURES

- · Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- · Low forward voltage drop
- · High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

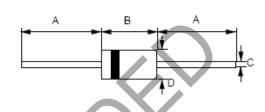
• Package: JEDEC DO-201AD molded plastic

· Polarity: Color band denotes cathode

· Weight: 0.04 ounces, 1.1 grams

· Mounting position: Any

DO-201AD



P	DO-201AD							
l	Dim.	Min.	Max.					
l	A	25.4	7					
I	В	7.30	9.50					
l	С	1.20	1.30					
I	D	4.80	5.30					
l	All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

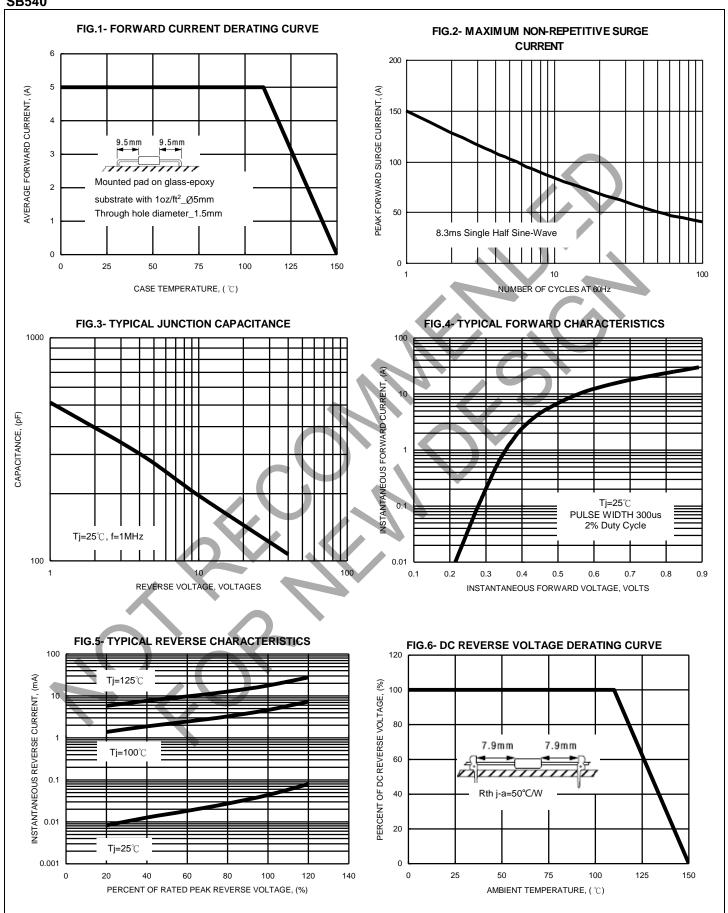
CHARACTERISTICS	SYMBOL	SB540	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	40	V
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward @TC=110°C Rectified Current	lav	5.0	А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	150	А
Maximum Forward Voltage at 5.0A DC	VF	0.55	٧
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	lR	0.15 20	mA
Typical Thermal Resistance (Note 4)	Rejl	9.0	°C/W
Typical Junction Capacitance (Note 5)	Cj	300	pF
Operating Junction Temperature Range	Tj	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Notes:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Thermal Resistance Junction to Lead.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RATING AND CHARACTERISTIC CURVES SB540

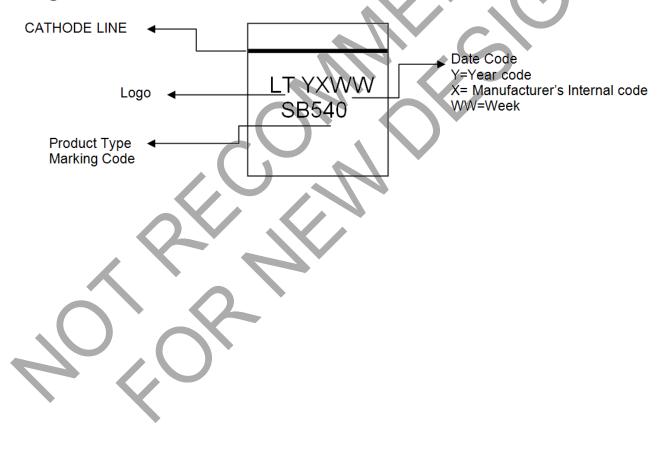




Ordering Information:

Part Number	Pookogo	Packing	
Fait Number	Package	Qty.	Carrier
SB540	DO-201AD	1200	Tape & Reel
SB540_FR	DO-201AD	500	Bulk Pack
SB540-A52	DO-201AD	1000	Ammo Pack

Marking Information:





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