

### **Features**

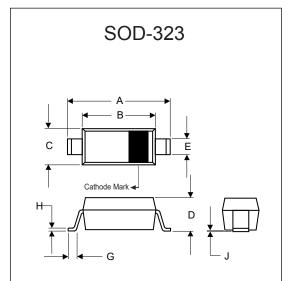
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# 500 mW Zener Diodes 5.1 Volts

# **Maximum Ratings**

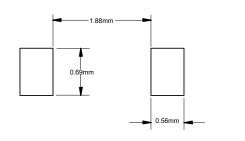
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance :250°C/W Junction to Ambient

Parameter	Symbol	Rating	Conditions		
Power Dissipation	$P_D$	500mW			
Maximum Forward Voltage	V <sub>F</sub>	0.9V	I <sub>F</sub> =10mA		



DIMENSIONS							
DIM	INCHES		M	M	NOTE		
ווועו	MIN	MAX	X MIN MAX		NOTE		
Α	0.090	0.107	2.30	2.70			
В	0.063	0.071	1.60	1.80			
С	0.045	0.053	1.15	1.35			
D	0.031	0.045	0.80	1.15			
E	0.010	0.016	0.25	0.40			
G	0.004	0.018	0.10	0.45			
Н	0.004	0.010	0.10	0.25			
J		0.006		0.15			

#### Suggested Solder Pad Layout



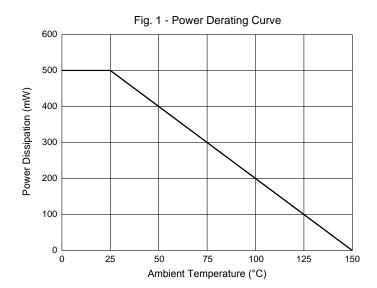


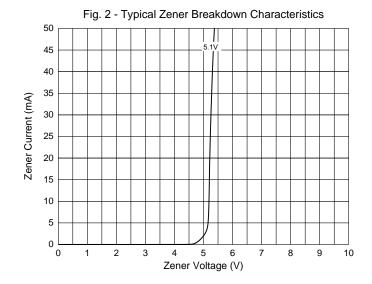
# Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Z	Zener Voltage		Maximum Zener Impedance		Maximum Zener Impedance		Maximum Reverse Current				Marking Code
V <sub>Z</sub>		$V_Z @ I_{ZT}$		$I_{ZT}$	Z <sub>ZT</sub>	I <sub>ZK</sub>	Z <sub>ZK</sub>	I <sub>R</sub>	$V_R$	I <sub>R</sub>	$V_R$	
	Min.(V)	Nom(V)	Max.(V)	mA	Ω	mA	Ω	μA	V	μA	V	
MMXZ5231BS	4.8	5.1	5.4	20.0	17	0.25	1600	5.0	2.0	50.0	4.2	AE1



# **Curve Characteristics**







## **Ordering Information**

Device	Packing				
Part Number-TP	Tape&Reel:3Kpcs/Reel				

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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