



Micro Commercial Components



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SMBJ5919C

1.5 Watt Surface Mount Silicon Zener Diodes

Features

- Halogen free available upon request by adding suffix "-HF"
- Surface Mount Application
- 5.6 Volt Voltage Range
- Low Inductance,Low Profile Mounting
- Glass Passivated Junction
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Mechanical Data

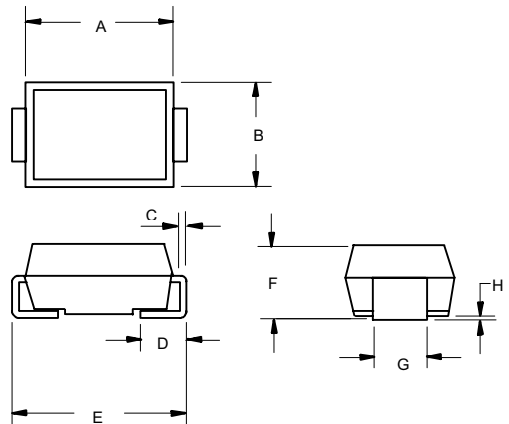
- CASE: JEDEC DO-214AA molded Surface Mountable
- Terminals solderable per MIL-STD-750, Method 2026
- Polarity is indicated by cathode band.
- Packaging: Standard 12mm Tape (see EIA 481)
- Maximum temperature for soldering: 260°C for 10 seconds.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Output Current	I _F	200mA	
Maximum Forward Voltage	V _F	1.5V	(Note: 2)
Steady State Power Dissipation	P _(AV)	1.5W	(Note: 3)
Operation And Storage Temperature	T _J , T _{STG}	-55°C to +150 °C	

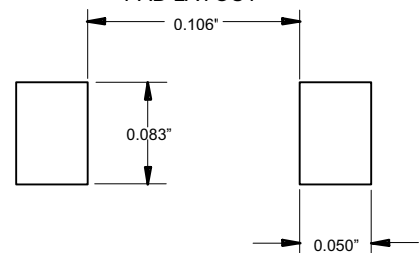
- NOTES:
1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
 2. Forward Current @ 200mA.
 3. Mounted on 5.0mm² (1oz thick) land areas.
Lead temperature at T_L=75°C

DO-214AA (SMB) (LEAD FRAME)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.160	.185	4.06	4.70	
B	.130	.155	3.30	3.94	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.200	.220	5.08	5.59	
F	.079	.096	2.00	2.44	
G	.075	.087	1.91	2.21	
H	.002	.008	0.05	0.203	

SUGGESTED SOLDER PAD LAYOUT



ELECTRICAL CHARACTERISTICS(TL=30 centigrade unless otherwise noted) (VF=1.5Volts Max @IF=200mAdc for all types.

MCC PART NUMBER	ZENER VOLTAGE V_z (*)	TEST CURRENT I_{ZT}	MAXIMUM DYNAMIC IMPEDANCE $Z_{ZT} @ I_{ZT}$	KNEE CURRENT I_{ZK}	KNEE IMPEDANCE Z_{ZK}	MAXIMUM REVERSE CURRENT I_R	REVERSE VOLTAGE V_R	DEVICE MARKING
	VOLTS	mA	OHMS	mA	OHMS	μ A	VOLTS	
SMBJ5919C	5.6	66.9	2.0	1.0	250	5.0	3.0	919C

* TOLERANCE AND VOLTAGE DESIGNATION Tolerance designation - The type numbers listed indicate a tolerance of +/-2%



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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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