

Features

- Metalurgically Bonded Construction
- · Low Cost And Low Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 30°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SM4933A	4933	50V	35V	50V
SM4934A	4934	100V	70V	100V
SM4935A	4935	200V	140V	200V
SM4936A	4936	400V	280V	400V
SM4937A	4937	600V	420V	600V

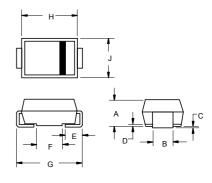
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =55°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.30V	I _{FM} =1.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	200ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2% Note:

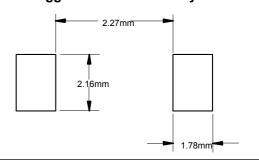
1.0 Amp Fast Recovery Rectifier 50 to 600 Volts

DO-214AC (SMA) (LEAD FRAME)



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.079	0.096	2.00	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
Е	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.181	4.00	4.60			
J	0.090	0.115	2.25	2.92			

Suggested Solder Pad Layout



^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{2.} High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.



Curve Characteristics

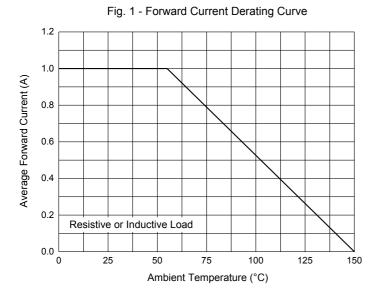


Fig. 3 - Typical Instantaneous Forward Characteristics

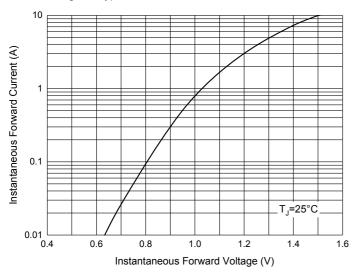


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

35

20

20

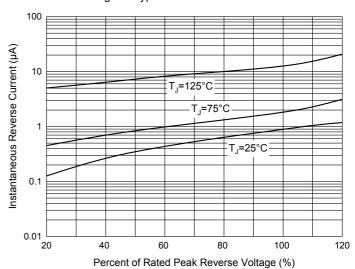
10

5

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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Rev.3-2-08012020 3/3 MCCSEMI.COM