

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Surge Forward Current Capability
- Extremely Low Thermal Resistance
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 15°C/W Junction to Lead
- Maximum Thermal Resistance: 33°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SL54	SL54	40V	28V	40V
SL56	SL56	60V	42V	60V
SL510	SL510	100V	70V	100V

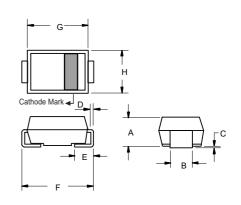
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	5.0A	T _A =75°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SL54 SL56 SL510	V _F	0.45V 0.50V 0.70V	I _{FM} =5.0A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA	T _J =25°C;
Typical Junction Capacitance	CJ	670pF	Measured at 1.0MHz, V _R =4.0V

Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

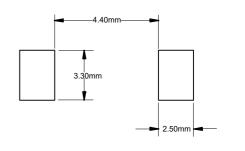
5 Amp Low VF Schottky Rectifier 40 to 100 Volts

SMC (DO-214AB)



DIMENSIONS								
DIM	INCHES		MM		NOTE			
Dilvi	MIN	MAX	MIN	MAX	NOTE			
Α	0.079	0.103	2.00	2.62				
В	0.108	0.128	2.75	3.25				
С	0.002	0.008	0.051	0.203				
D	0.006	0.012	0.152	0.305				
E	0.030	0.060	0.76	1.52				
F	0.305	0.320	7.75	8.13				
G	0.260	0.280	6.60	7.11				
Н	0.220	0.245	5.59	6.22				

Suggested Solder Pad Layout





Curve Characteristics

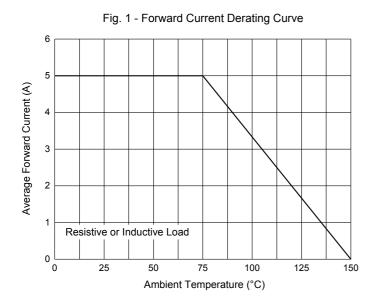


Fig. 3 - Typical Instantaneous Forward Characteristics

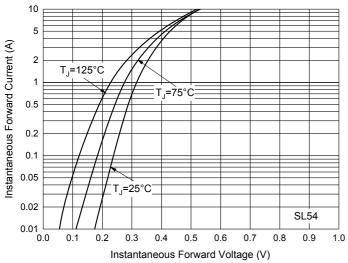
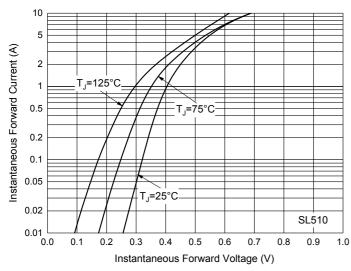


Fig. 5 - Typical Instantaneous Forward Characteristics



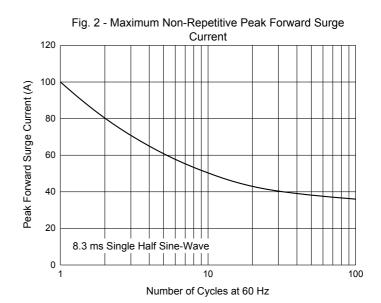


Fig. 4 - Typical Instantaneous Forward Characteristics

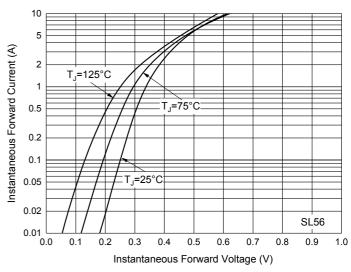
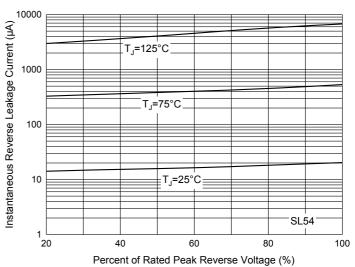


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

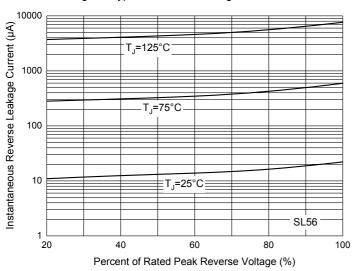
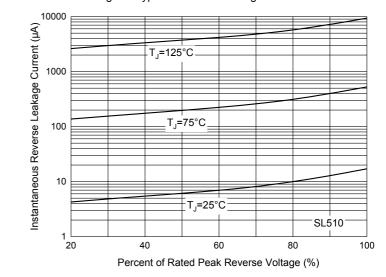


Fig. 8 - Typical Reverse Leakage Characteristics





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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