



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

SMD32PL THRU SMD310PL

3 Amp Schottky Rectifier 20 to 100 Volts

Features

- Schottky Barrier Rectifier
- High Current Capability
- Low Forward Voltage
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature:-55°C to +125°C(SMD32PL~SMD34PL)
-55°C to +150°C(SMD36PL~SMD310PL)
- Storage Temperature:-55°C to +150°C
- Maximum Thermal Resistance; 20°C/W Junction To Lead

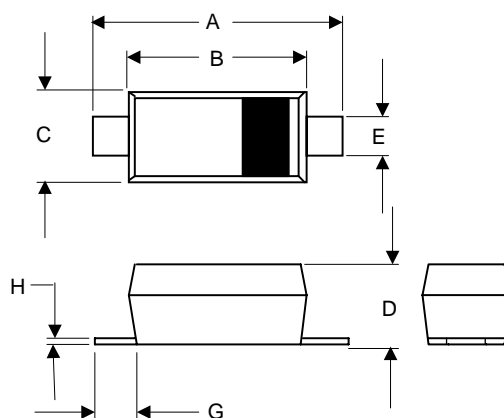
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD32PL	SM32	20V	14V	20V
SMD34PL	SM34	40V	28V	40V
SMD36PL	SM36	60V	42V	60V
SMD38PL	SM38	80V	56V	80V
SMD310PL	SM310	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I_F	3.0A	$T_A=75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.50V 0.65V 0.85V	$I_{FM}=3.0A;$ $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA	$T_A=25^\circ\text{C}$

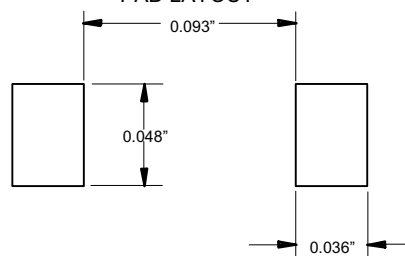
Note: 1.High Temperature Solder Exemption Applied, See EU Directive Annex 7.

SOD-123FL



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.122	2.55	3.10	
C	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

SUGGESTED SOLDER PAD LAYOUT



Characteristics(Typical)

FIG1:Io-Ta Curve

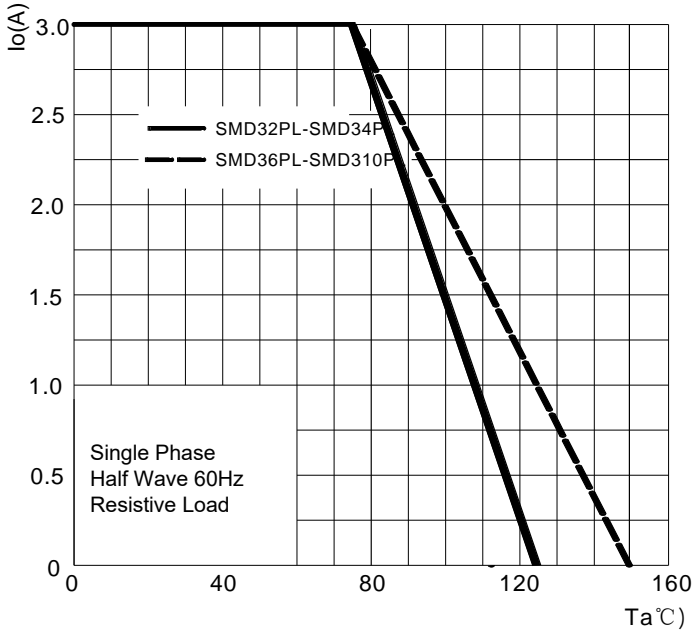


FIG2:Surge Forward Current Capacity

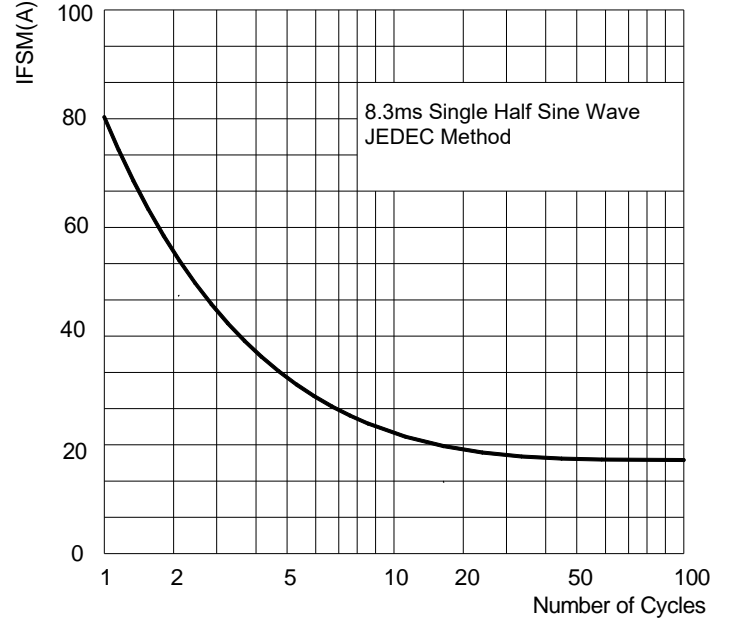


FIG3: Forward Voltage

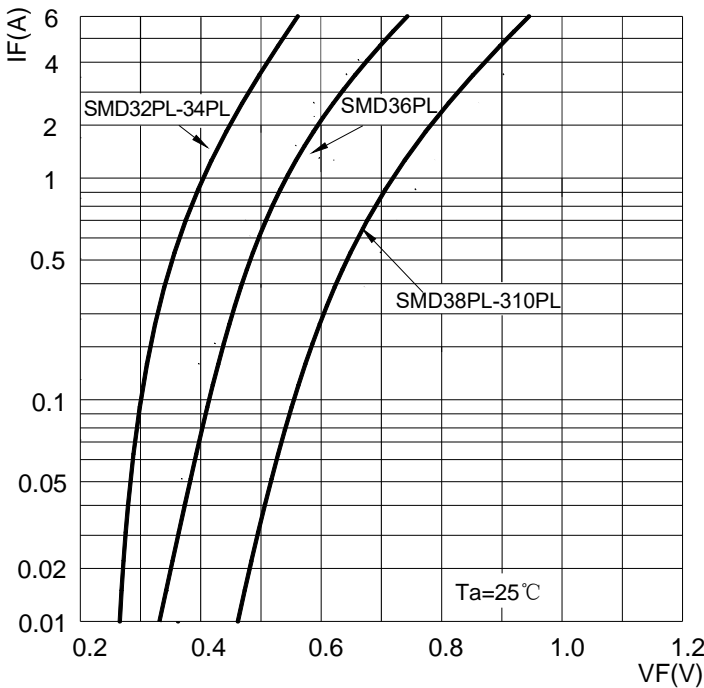
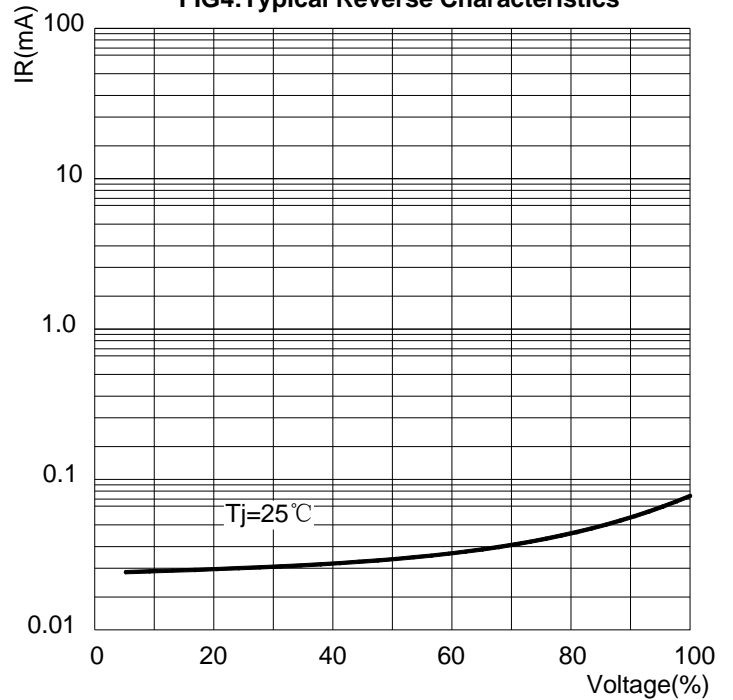


FIG4:Typical Reverse Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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