

Features

- Halogen Free. "Green" Device (Note 1)
- For Surface Mount Applications
- Very Low Profile
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

D	Symbol	Value							
Parameter		SMD 32PL	SMD 34PL	SMD 36PL	SMD 38PL	SMD 310PL	SMD 315PL	SMD 320PL	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V_{RWM}	20	40	60	80	100	150	200	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V _{RMS}	14	28	42	56	70	105	140	٧
Average Rectified Forward Current	I _{F(AV)}				3				Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}				80				А
Current Squared Time @1ms≤t≤8.3ms	l ² t				26.5	56			A ² s

Marking Code

Part Number	Marking Code
SMD32PL	SM32
SMD34PL	SM34
SMD36PL	SM36
SMD38PL	SM38
SMD310PL	SM310
SMD315PL	SM315
SMD320PL	SM320

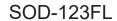
Internal Structure

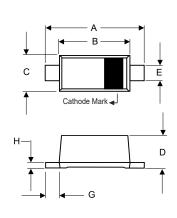
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	1 XXXX 2	
2	Anode	XXXX = Marking Code	1 0 2

Note: 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 exemption applied, see EU directive annex 7a.

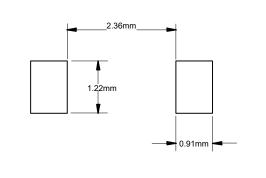
3 Amp Schottky Rectifier 20 to 200 Volts





DIMENSIONS						
DIM INCH		HES	MM		NOTE	
DIIVI	MIN	MAX	AX MIN MAX		NOTE	
Α	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
C	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
Е	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Η		0.010		0.25		

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T_J	Operating Junction Temperature Range	SMD32PL~SMD34PL	-55		125	°C
T _J	Operating Junction Temperature Range	SMD36PL~SMD320PL	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		35		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

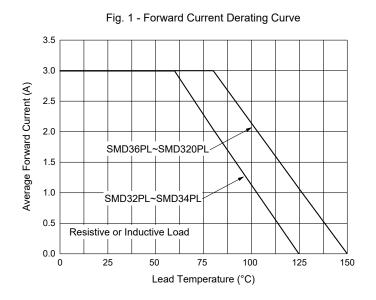
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SMD32PL~SMD34PL	V _F	$I_F=3A;T_J=25$ °C			0.50	
SMD36PL					0.65	V
SMD38PL~SMD310PL					0.85	
SMD315PL~SMD320PL					0.90	
Reverse Current						
SMD32PL~SMD36PL	I _R	at Rated V _R ;T _J =25°C			0.1	
		at Rated V _R ;T _J =125°C			20	mA
SMD38PL~SMD320PL		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SMD32PL~SMD34PL	CJ	$V_R=4V;f=1MHz;T_J=25$ °C		150		
SMD36PL				130		"F
SMD38PL~SMD310PL				95		pF
SMD315PL~SMD320PL				60		

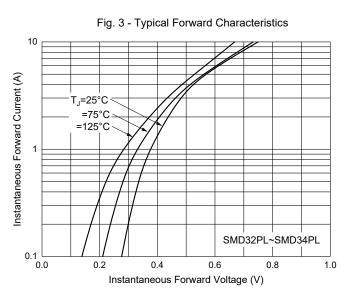
Rev.4-1-04232024 2/5 MCCSEMI.COM

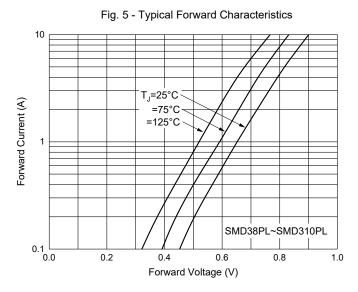
^{1.}Mounted on P.C.B. with 3.0 mm x 3.0 mm copper pad areas.

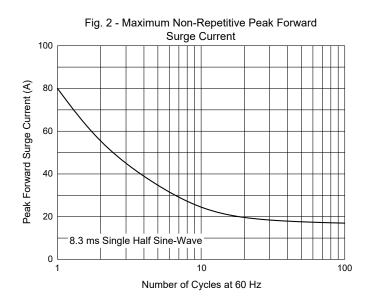


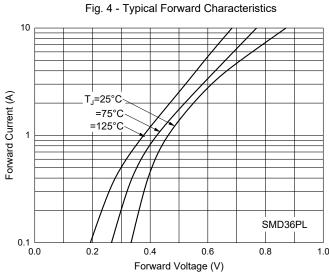
Curve Characteristics

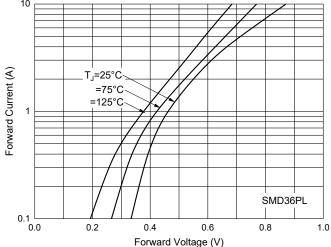


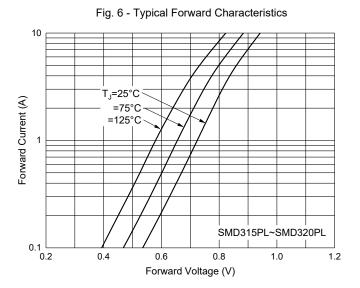














Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

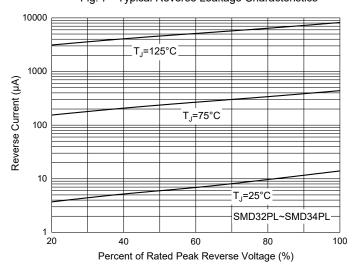


Fig. 9 - Typical Reverse Leakage Characteristics

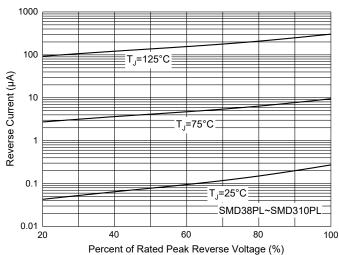


Fig. 11 - Typical Capacitance Characteristics

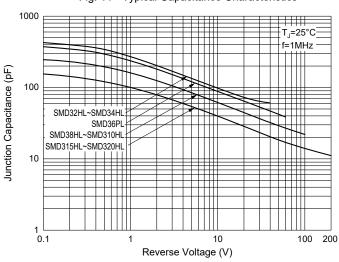


Fig. 8 - Typical Reverse Leakage Characteristics

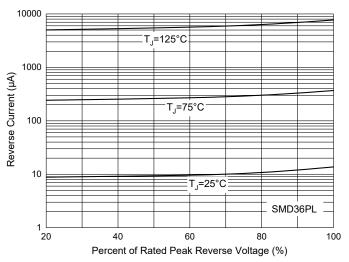
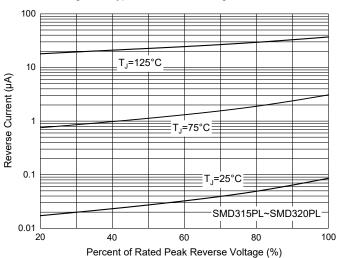


Fig. 10 - Typical Reverse Leakage Characteristics





Ordering Information

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

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