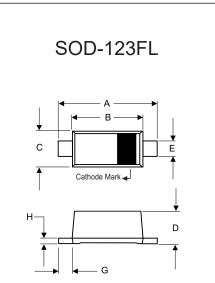


Features

- Halogen Free. "Green" Device (Note 1)
- High Current Capability Low Profile Package
- 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)

		Value						Г		
Parameter	Symbol	SMD 15PL	SMD 16PL	SMD 18PL	SMD 110PL	SMD 1150PL	SMD 1200PL	Unit		
Peak Repetitive Reverse Voltage	V _{RRM}									
Working Peak Reverse Voltage	V_{RWM}	50	50	50 60	80	100	150	200	V	
DC Blocking Voltage	V_{R}									
RMS Reverse Voltage	V_{RMS}	35	42	56	70	105	140	V		
Average Rectified Forward Current	I _{F(AV)}				1			А		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30			A					
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A ² s					



1 Amp

GifZWY Acibh

GW chmFYWjZYf

50 to 200 Volts

DIM	INCHES			
Divi	MIN	MAX		
A	0.130	0.152		
В	0.100	0.122	2 2 5	
С	0.055	0.075		
D	0.035	0.053	1	

Marking co	de
------------	----

Part Number	Marking Code
SMD15PL	D5
SMD16PL	D6
SMD18PL	D8
SMD110PL	D10
SMD1150PL	D15
SMD1200PL	D20

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	XXX = Marking code	1 oo 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.

SUGGESTED SOLDER PAD LAYOUT

DIMENSIONS

MIN

3.30

2.55

1.40

0.90

0.50

0.25

0.010

0.020 0.041

0.010

Е

G

Н

MM

MAX

3.85

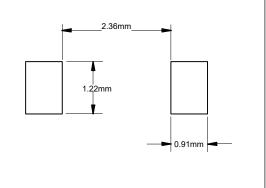
3.10

1.90

1.35

1.05

____ 0.25 NOTE





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		88		°C/W

Note:

1.Mounted on P.C.B. with 5mm*5mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
SMD15PL~SMD16PL	VF	I _F =1A;T _J =25°C			0.70	V
SMD18PL~SMD1150PL					0.85	
SMD1200PL					0.95	
Reverse Current						
SMD15PL~SMD16PL	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V_R ;T _J =125°C			20	
SMD18PL~SMD1200PL		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
SMD15PL~SMD16PL	CJ	V _R =4V;f=1MHz;T _J =25°C		40		pF
SMD18PL~SMD110PL				30		
SMD1150PL~SMD1200PL				20		



Curve Characteristics

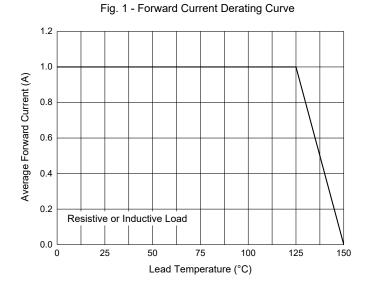


Fig. 3 - Typical Forward Characteristics

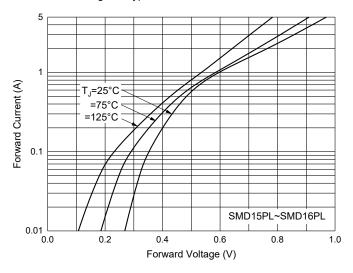
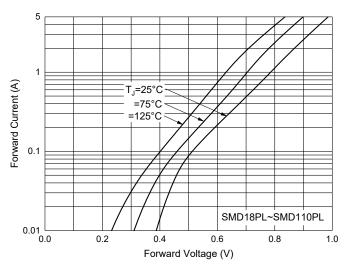


Fig. 5 - Typical Forward Characteristics



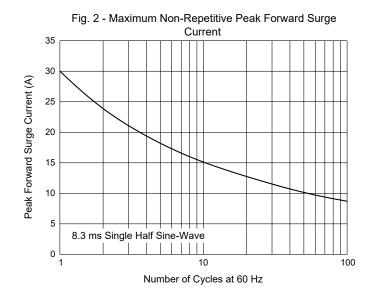


Fig. 4 - Typical Reverse Leakage Characteristics

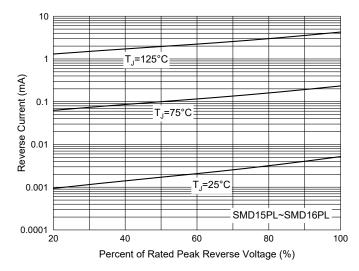
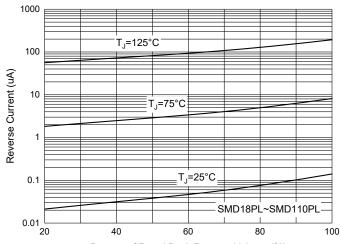


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)





Curve Characteristics



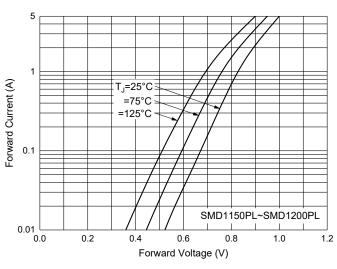
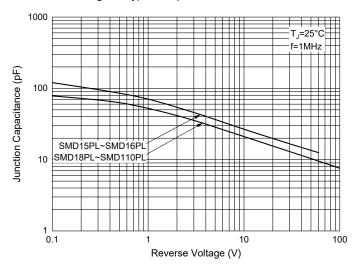


Fig. 9 - Typical Capacitance Characteristics



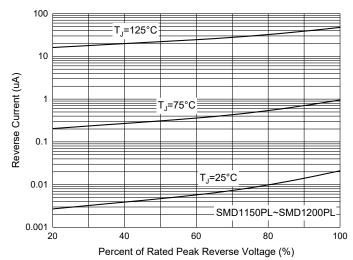
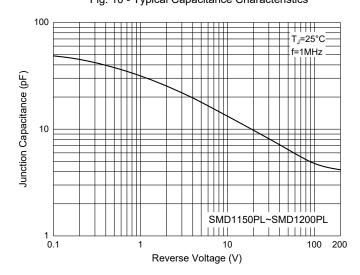


Fig. 8 - Typical Reverse Leakage Characteristics







Ordering Information

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

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