

& Amp

GifZWY'A cibh

GW ch_mFYWjZyf

150 to 200 Volts

Features

- Halogen Free. "Green" Device (Note 1)
- High Current CapabilityLow 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)

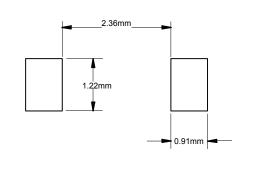
Maximum Ratings @ 25°C (Unless Otherwise Specified)

_		Value		
Parameter	Symbol	SMD 2150PL	SMD 220PL	Unit
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage	V _{RWM}	150	200	V
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	105	140	V
Average Rectified Forward Current	I _{F(AV)}		2	А
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50		
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375		A²s

SOD-123FL

	DIMENSIONS					
		HES	MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
A	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
С	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
E	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Н		0.010		0.25		

SUGGESTED SOLDER PAD LAYOUT



Marking Code

Part Number	Marking Code			
SMD2150PL	M15			
SMD220PL	M20			

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	XXXX = 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.



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		21		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			0.90	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			0.01 5	mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		50		pF



Curve Characteristics

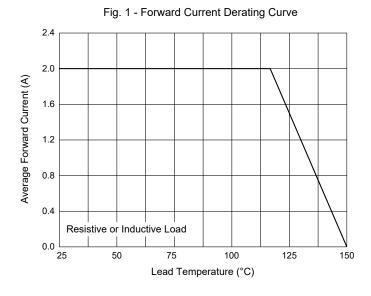


Fig. 3 - Typical Forward Characteristics

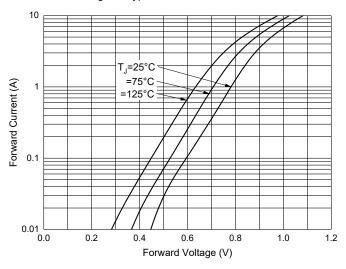
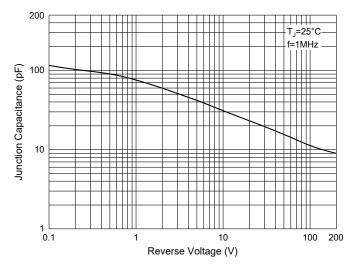


Fig. 5 - Typical Capacitance Characteristics



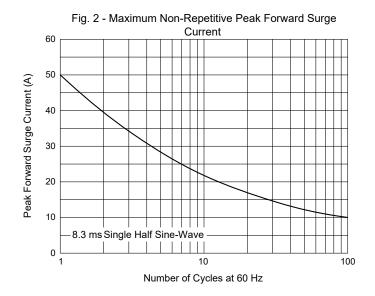
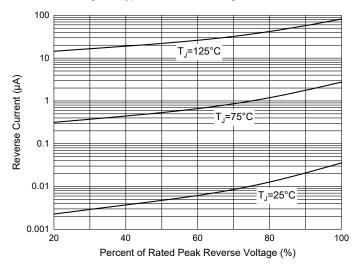


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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