

# SMD2150PL THRU SMD220PL

## Schottky Barrier Diodes 150 to 200 Volts

### Features

- Halogen free available upon request by adding suffix "-HF"
- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Mechanical Data

- Packaging: SOD-123FL
- Marking Code: SMD2150PL---M15; SMD220PL---M20;

### Maximum Ratings

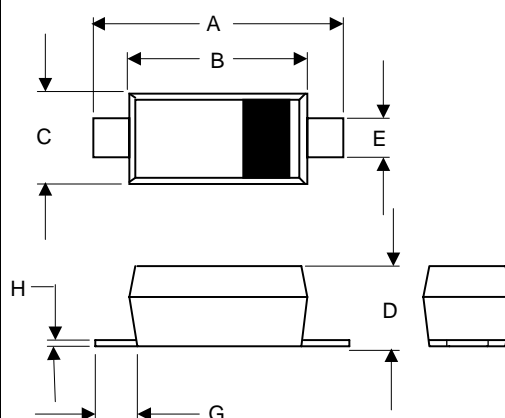
Symbol	Parameter	Rating	Unit
$V_{RMS}$	Maximum RMS Voltage SMD2150PL SMD220PL	105 140	V
$V_{RRM}$	Repetitive Peak Reverse Voltage SMD2150PL SMD220PL	150 200	V
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_L=90^{\circ}C$	2.0	A
$I_{FSM}$	Surge Forward Current, halfsine wave 8.3ms	50	A
$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	Typical Thermal Resistance(Note2)	60 30 21	$^{\circ}C/W$ $^{\circ}C/W$ $^{\circ}C/W$
$P_D$	Power Dissipation	1.68	W
$T_J$	Junction Temperature	-65 to +150	$^{\circ}C$
$T_{STG}$	Storage Temperature	-65 to +150	$^{\circ}C$

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage (@2A dc)	---	---	0.90	V
$I_R$	Maximum DC Reverse Current	---	---	0.5	mA
$C_j$	Typical Junction Capacitance @f=1.0MHz, $V_r=4V$	---	210	---	pF

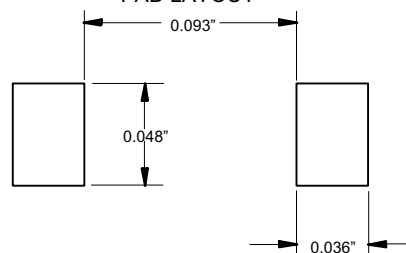
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.  
2. Thermal Resistance: PC Board Mounted on 0.2" x 0.2" (5\*5mm) copper pad area.

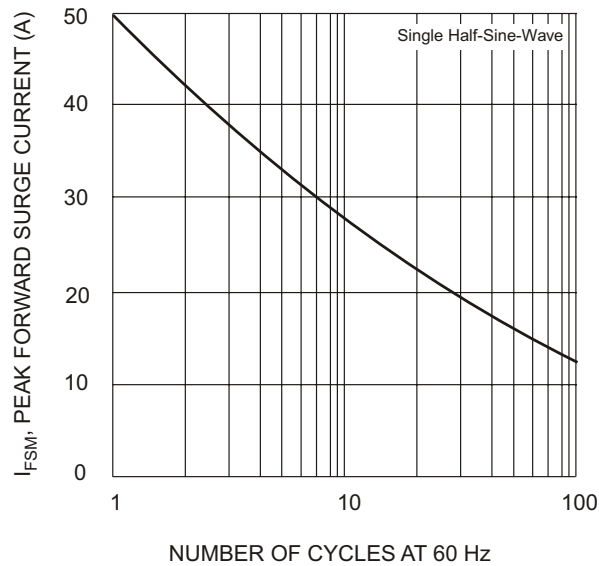
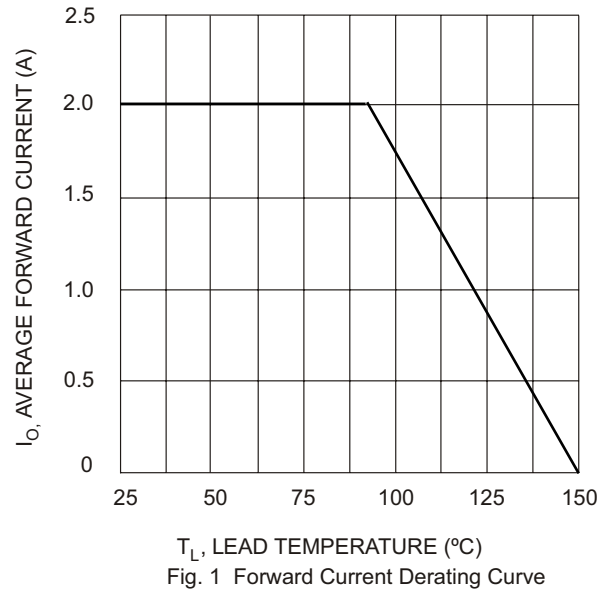
### SOD-123FL



DIM	INCHES		MM		NOTE
	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





## 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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