

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

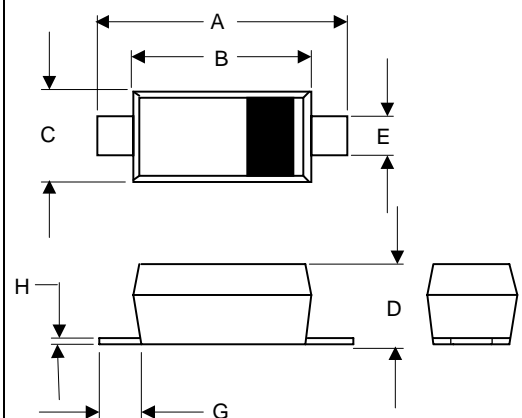
Symbol	Parameter	Rating	Unit
V_{RMS}	Maximum RMS Voltage SMD2150PL SMD220PL	105 140	V
V_{RRM}	Repetitive Peak Reverse Voltage SMD2150PL SMD220PL	150 200	V
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_L=90^{\circ}C$	2.0	A
I_{FSM}	Surge Forward Current, halfsine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

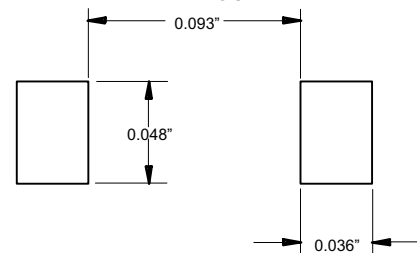
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.
 2. Thermal Resistance: PC Board Mounted on 0.2" x 0.2" (5" x 5mm) copper pad area.

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



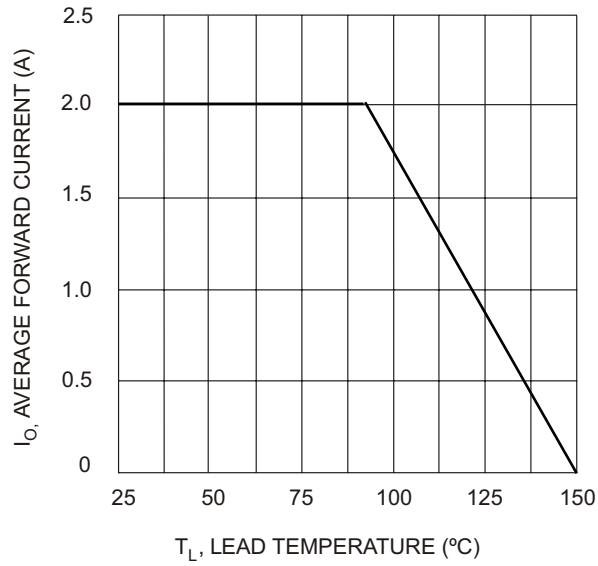


Fig. 1 Forward Current Derating Curve

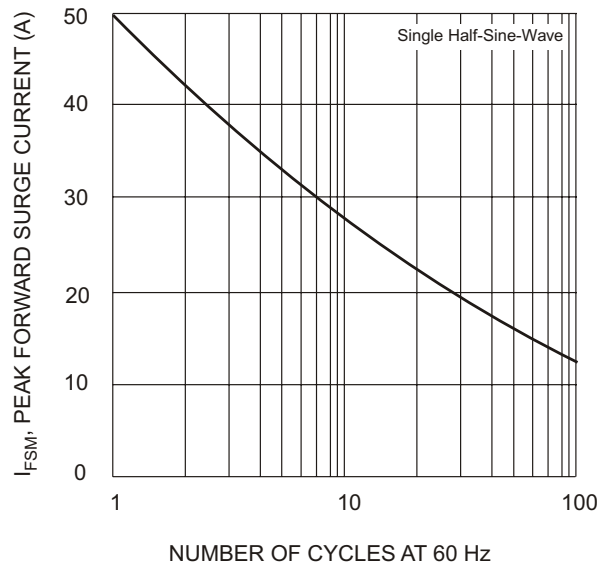


Fig. 2 Max Non-Repetitive Peak Forward Surge Current



Micro Commercial Components

Ordering Information :

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.