

# SMD22PL THRU SMD210PL

## Schottky Barrier Diodes 20 to 100 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

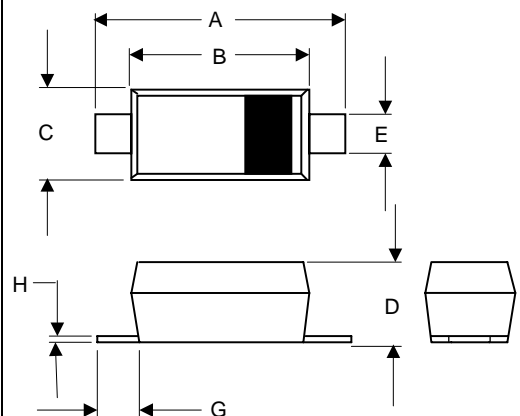
### Mechanical Data

- Packaging: SOD-123FL
- Marking Code: SMD22PL---M2; SMD24PL---M4; SMD26PL---M6  
 SMD28PL---M8; SMD210PL---M10;

### Maximum Ratings

Symbol	Parameter	Rating	Unit
V <sub>RMS</sub>	Maximum RMS Voltage	SMD22PL	14
		SMD24PL	28
		SMD26PL	42
		SMD28PL	56
		SMD210PL	70
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	SMD22PL	20
		SMD24PL	40
		SMD26PL	60
		SMD28PL	80
		SMD210PL	100
I <sub>F(AV)</sub>	Rectified Current (Average) Half Wave Rectification with Resist. Load at T <sub>L</sub> =90°C	2.0	A
I <sub>FSM</sub>	Surge Forward Current, halfsine wave 8.3ms	50	A
R <sub>thJA</sub>	Typical Thermal Resistance(Note2)	60	°C/W
R <sub>thJC</sub>		30	°C/W
R <sub>thJL</sub>		21	°C/W
P <sub>D</sub>	Power Dissipation	1.68	W
T <sub>J</sub>	Junction Temperature	-65 to +125	°C
T <sub>STG</sub>	Storage Temperature	-65 to +125	°C

### SOD-123FL



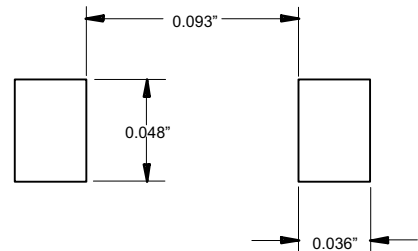
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.122	2.55	3.10	
C	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	-----	.25	

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

Symbol	Parameter	Min	Typ	Max	Units
V <sub>F</sub>	Forward Voltage (@2A dc)	SMD22PL~24PL	---	0.50	V
		SMD26PL	---	0.70	
		SMD28PL~210PL	---	0.85	
I <sub>R</sub>	Maximum DC Reverse Current	---	---	0.5	mA
C <sub>J</sub>	Typical Junction Capacitance @f=1.0MHz, V <sub>r</sub> =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.

### SUGGESTED SOLDER PAD LAYOUT



# SMD22PL~SMD210PL

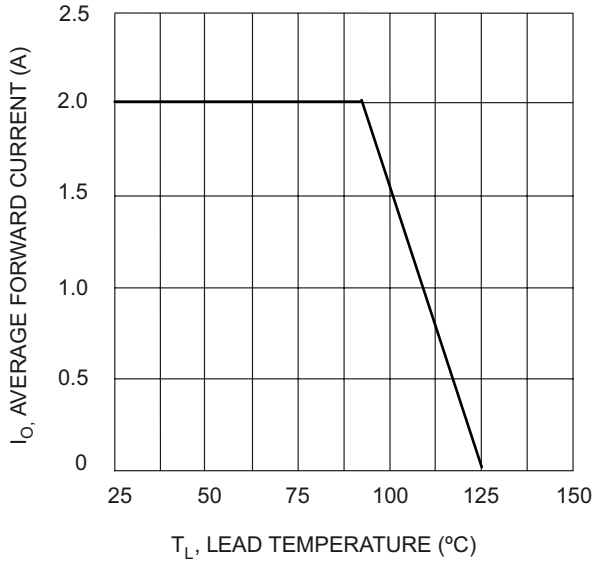


Fig. 1 Forward Current Derating Curve

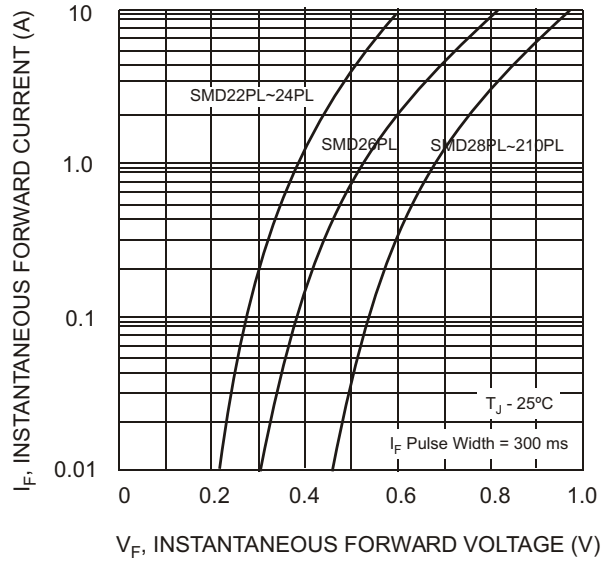


Fig. 2 Typical Forward Characteristics

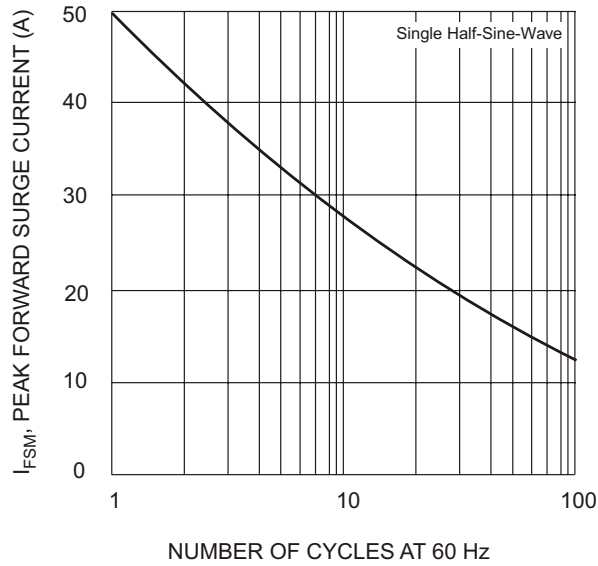


Fig. 3 Max Non-Repetitive Peak Forward Surge Current



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### 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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