

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

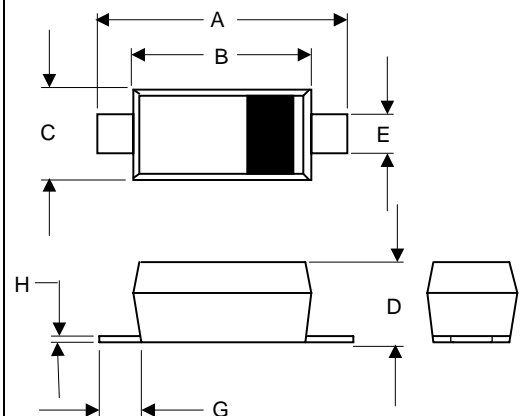
Symbol	Parameter	Rating	Unit	
V_{RMS}	Maximum RMS Voltage	SMD22PL	14	V
		SMD24PL	28	
		SMD26PL	42	
		SMD28PL	56	
		SMD210PL	70	
V_{RRM}	Repetitive Peak Reverse Voltage	SMD22PL	20	V
		SMD24PL	40	
		SMD26PL	60	
		SMD28PL	80	
		SMD210PL	100	
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification 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	$^{\circ}C/W$	
		30	$^{\circ}C/W$	
		21	$^{\circ}C/W$	
P_D	Power Dissipation	1.68	W	
T_J, T_{stg}	Junction and Storage Temperature	SMD22PL~SMD26PL	-65 to +125	$^{\circ}C$
		SMD28PL~SMD210PL	-65 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage (@2A dc)	SMD22PL~24PL	---	0.50	V
		SMD26PL	---	0.70	
		SMD28PL~210PL	---	0.85	
I_R	Maximum DC Reverse Current	---	---	0.5	mA
C_j	Typical Junction Capacitance @f=1.0MHz, $V_r=4V$	---	210	---	pF

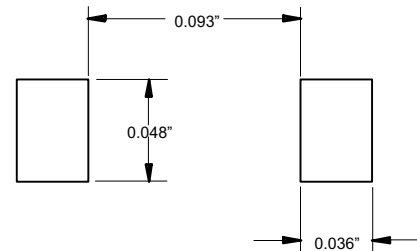
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.
2. Thermal Resistance:PC Board Mounted on 0.2"0.2"(5*5mm) copper pad area.

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



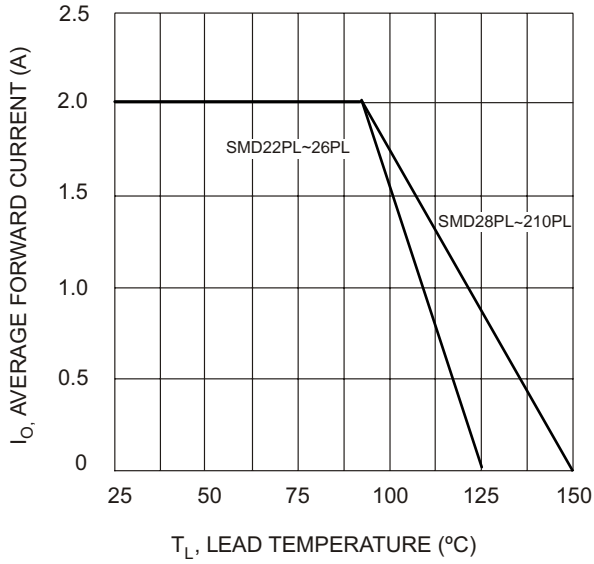


Fig. 1 Forward Current Derating Curve

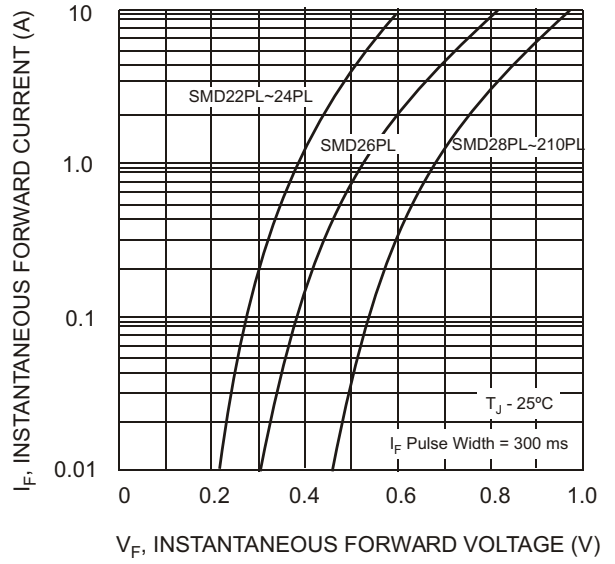


Fig. 2 Typical Forward Characteristics

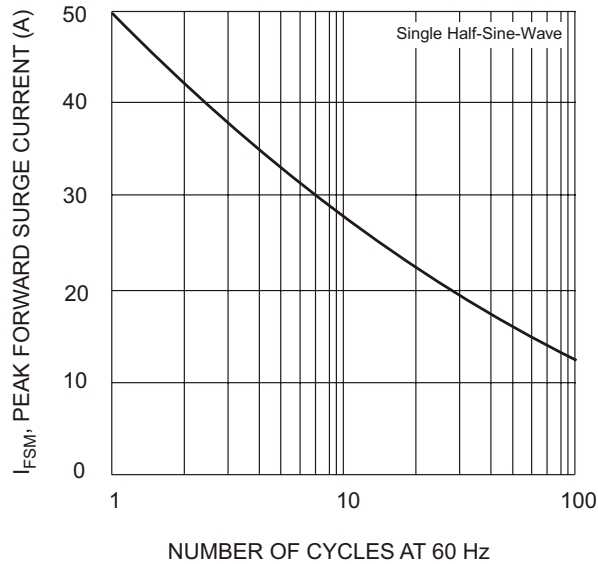


Fig. 3 Max Non-Repetitive Peak Forward Surge Current



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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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