

SMD22PL THRU SMD210PL

Schottky Barrier Diodes 20 to 100 Volts

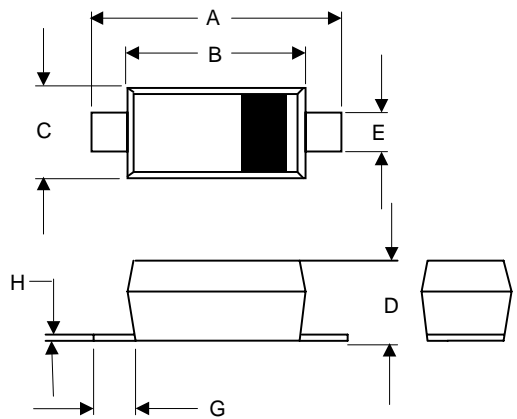
Features

- 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

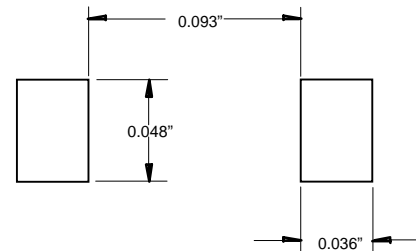
- Packaging: SOD-123FL
- Marking Code: SMD22PL---M2; SMD24PL---M4; SMD26PL---M6
SMD28PL---M8; SMD210PL---M10;

SOD-123FL



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	----	.20	

SUGGESTED SOLDER PAD LAYOUT



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 $T_L=90^\circ\text{C}$	2.0	A	
I_{FSM}	Surge Forward Current, halfsine wave 8.3ms	50	A	
R_{thJA}	Typical Thermal Resistance(Note2)	60	$^\circ\text{C/W}$	
R_{thJC}		30	$^\circ\text{C/W}$	
R_{thJL}		21	$^\circ\text{C/W}$	
P_D	Power Dissipation	1.68	W	
T_J	Junction Temperature	-65 to +125	$^\circ\text{C}$	
T_{STG}	Storage Temperature	-65 to +125	$^\circ\text{C}$	

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, Vr=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.

SMD22PL~SMD210PL

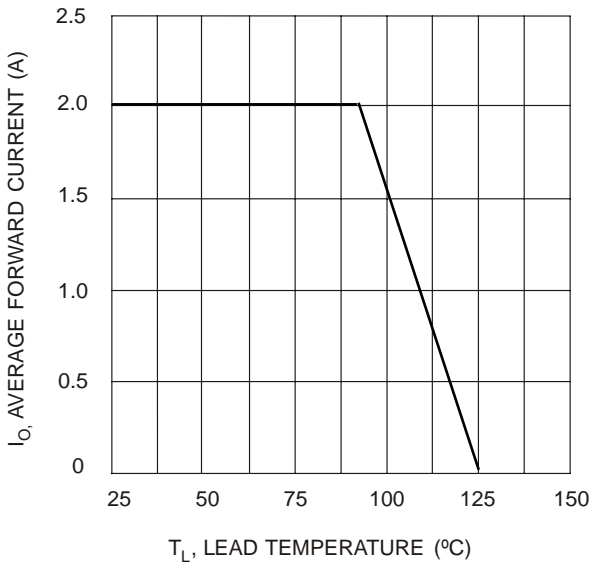


Fig. 1 Forward Current Derating Curve

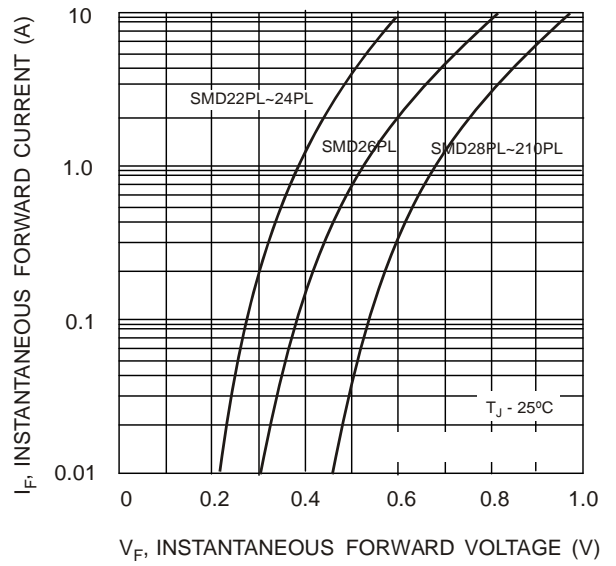


Fig. 2 Typical Forward Characteristics

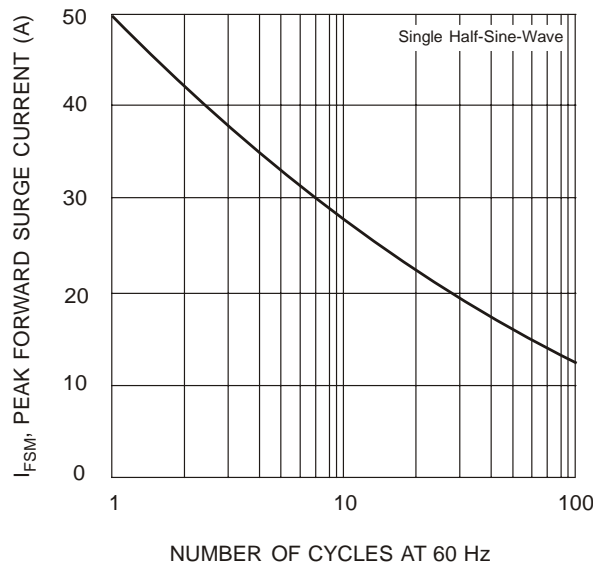


Fig. 3 Max Non-Repetitive Peak Forward Surge Current