



Micro Commercial Components

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SMD22PL THRU SMD26PL

Schottky Barrier Diodes 20 to 60 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Mechanical Data

- Packaging: Powerlite-123
- Marking Code : SMD22PL---M2
SMD24PL---M4
SMD26PL---M6

Maximum Ratings

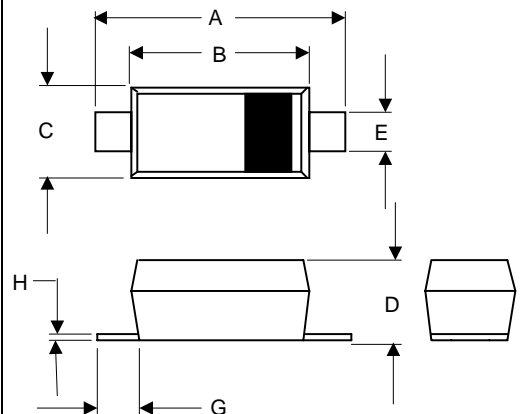
Symbol	Parameter	Rating	Unit
V _{RMS}	Maximum RMS Voltage	SMD22PL	14
		SMD24PL	28
		SMD26PL	42
V _{RPM}	Repetitive Peak Reverse Voltage	SMD22PL	20
		SMD24PL	40
		SMD26PL	60
I _{F(AV)}	Rectified Current (Average) Half Wave Rectification with Resist. Load at T _L =90°C	2.0	A
I _{FSM}	Surge Forward Current, halfsine wave 8.3ms	50	A
R _{thJL}	Typical Thermal Resistance ⁽²⁾	80	°C / W
T _J	Junction Temperature	-65 to +125	°C
T _{STG}	Storage Temperature	-65 to +125	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V _F	Forward Voltage (@2A dc)	SMD22PL	---	0.50	V
		SMD24PL	---	0.50	
		SMD26PL	---	0.70	
I _R	Maximum DC Reverse Current	---	---	0.5	mA
C _J	Typical Junction Capacitance @f=1.0MHz, V _r =4V	---	210	---	pF

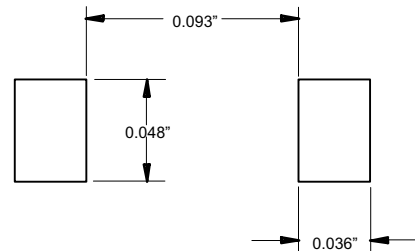
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
 2. Thermal Resistance: PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.

Powerlite-123

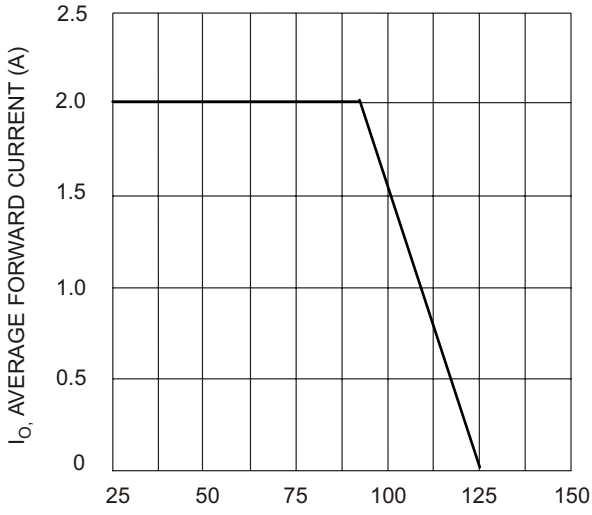


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	----	.20	

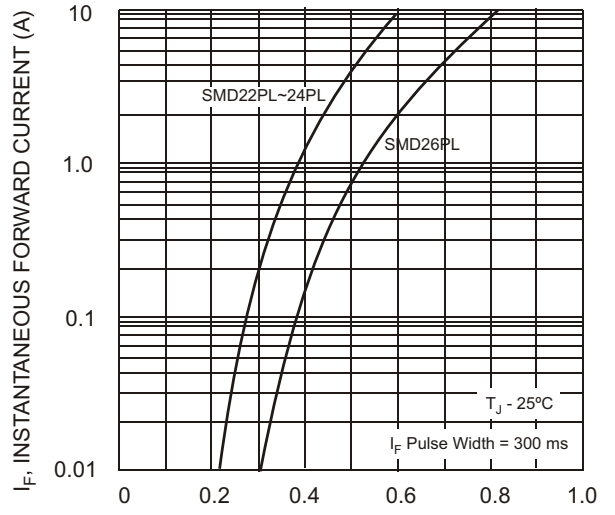
SUGGESTED SOLDER PAD LAYOUT



SMD22PL~SMD26PL



T_L , LEAD TEMPERATURE ($^{\circ}$ C)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics

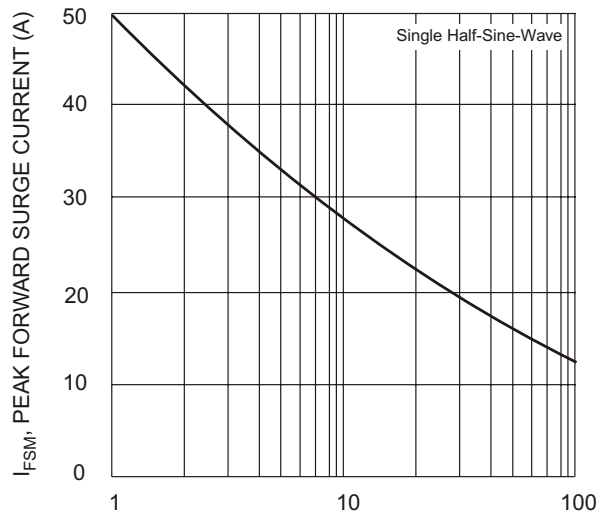


Fig. 3 Max Non-Repetitive Peak Forward Surge Current



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;2.5Kpcs/Reel

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