



Micro Commercial Components

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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
V_{RRM}	Repetitive Peak Reverse Voltage	SMD22PL 20 SMD24PL 40 SMD26PL 60	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, half sine wave 8.3ms	50	A
$R_{\theta JL}$	Typical Thermal Resistance ⁽²⁾	80	$^{\circ}C/W$
T_J	Junction Temperature	-65 to +125	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +125	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage (@2A dc)	---	---	SMD22PL 0.50 SMD24PL 0.50 SMD26PL 0.70	V
I_R	Maximum DC Reverse Current	---	---	0.5	mA
C_j	Typical Junction Capacitance @f=1.0MHz, $V_r=4V$	---	210	---	pF

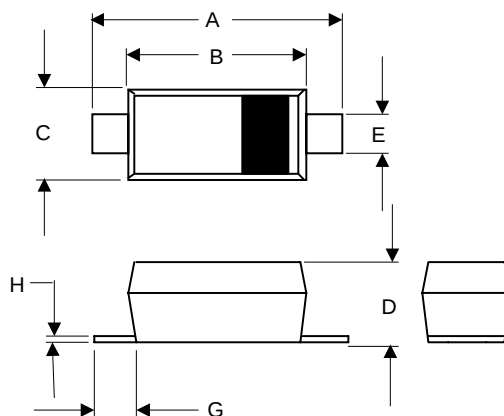
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

2. Thermal Resistance: PC Board Mounted on 0.2"0.2" (5*5mm) copper pad area.

SMD22PL THRU SMD26PL

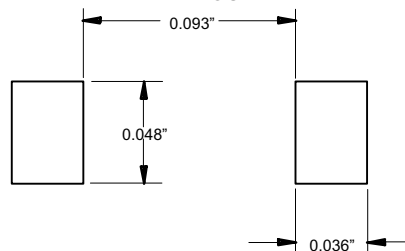
Schottky Barrier Diodes 20 to 60 Volts

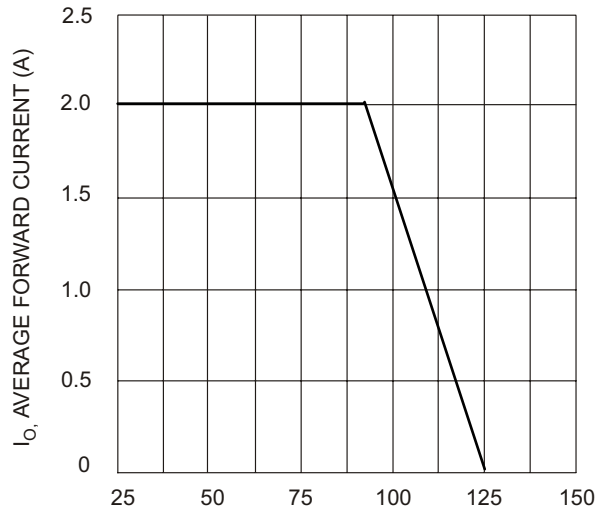
Powerlite-123



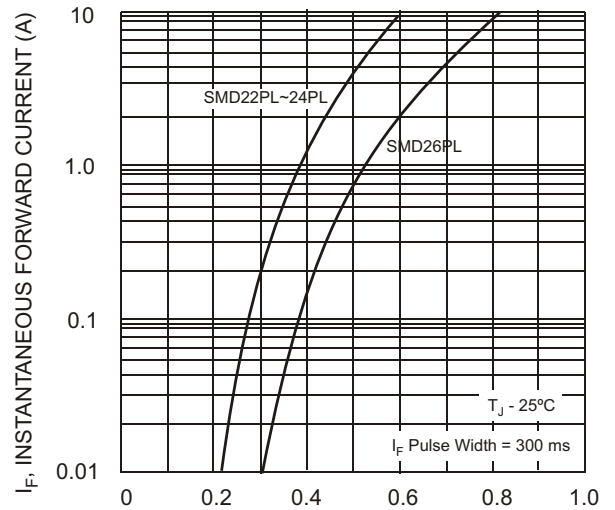
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	----	0.25	----	
H	----	.008	----	.20	

SUGGESTED SOLDER PAD LAYOUT





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



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

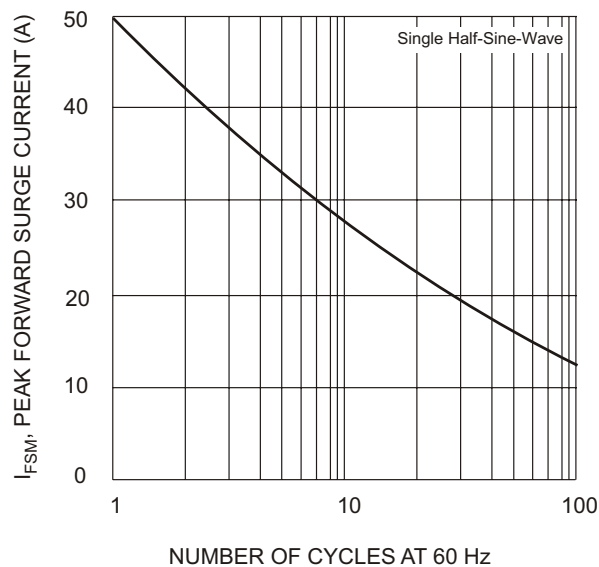


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

Ordering Information

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

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