

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	14	V
	SMD22PL	28	
	SMD24PL	42	
	SMD26PL	56	
	SMD28PL	70	
V_{RRM}	Repetitive Peak Reverse Voltage	20	V
	SMD22PL	40	
	SMD24PL	60	
	SMD26PL	80	
	SMD28PL	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_{hJA} R_{hJC} R_{hJL}	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 SMD28PL~SMD210PL	-65 to +125 -65 to +150
			$^\circ C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage SMD22PL~24PL (@2A dc)	---	---	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

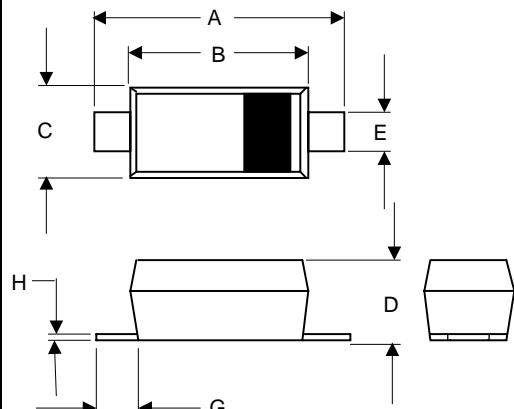
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

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

SMD22PL THRU SMD210PL

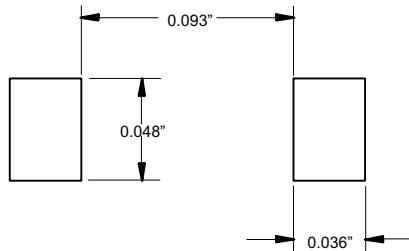
Schottky Barrier Diodes 20 to 100 Volts

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



SMD22PL~SMD210PL

•M•C•C•

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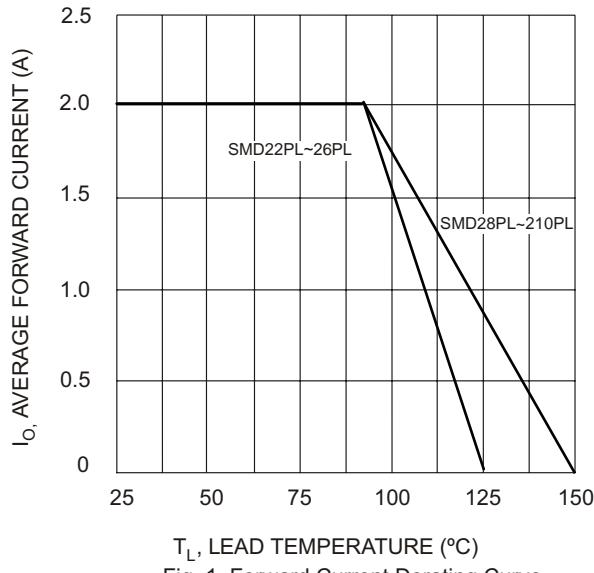


Fig. 1 Forward Current Derating Curve

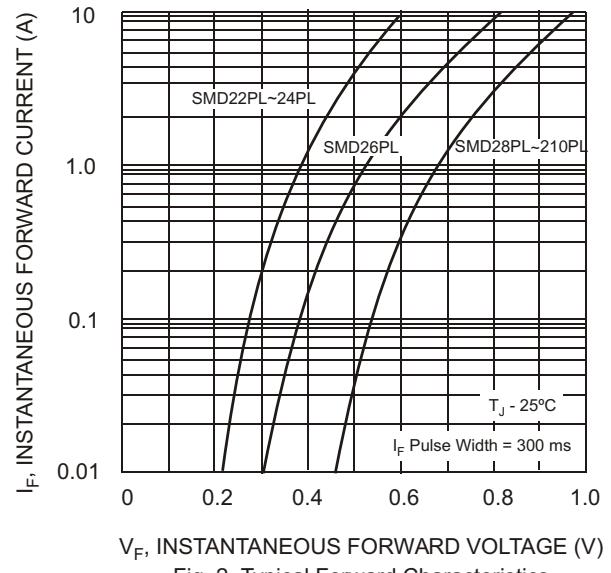


Fig. 2 Typical Forward Characteristics

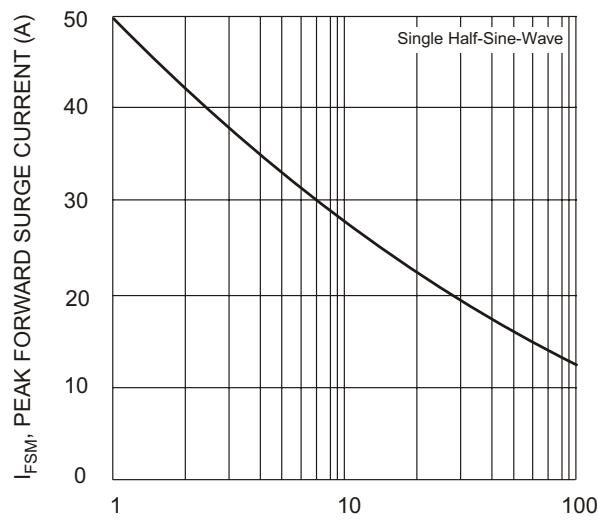


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com