

**Micro Commercial Components** 



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### **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
	Maximum RMS Voltage SMD22PL	14	
$V_{RMS}$	SMD24PL	28	V
	SMD26PL	42	
	SMD28PL	56	
	SMD210PL	70	
	Repetitive Peak Reverse Voltage SMD22PL	20	
$V_{RRM}$	SMD24PL	40	V
	SMD26PL	60	
	SMD28PL	80	
	SMD210PL	100	
	Rectified Current (Average) Half Wave		
I <sub>F(AV)</sub>	Rectification with Resist. Load at T <sub>L</sub> =90 °C	2.0	Α
I <sub>FSM</sub>	Surge Forward Current, halfsine wave 8.3ms	50	Α
RthJA		60	%C\M
RthJC	Typical Thermal Resistance(Note2)	30	%C/W
RthJL	, ,	21	.c\M
$P_{D}$	Power Dissipation	1.68	W
T <sub>J</sub>	Junction Temperature	-65 to +125	$^{\circ}$
T <sub>STG</sub>	Storage Temperature	-65 to +125	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parar	Min	Тур	Max	Units	
$V_{F}$	Forward Voltag	SMD22PL~24PL			0.50	\/
	(@2A dc)	SMD26PL			0.70	V
		SMD28PL~210PL	-		0.85	
I <sub>R</sub>	Maximum DC Reverse Current		1	1	0.5	mA
Cj	Typical Junction Capacitance @f=1.0MHz,Vr=4V			210		pF

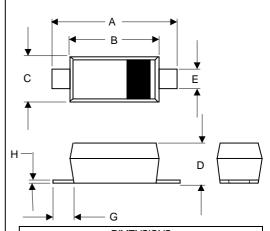
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

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

# SMD22PL **THRU** SMD210PL

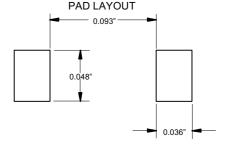
# **Schottky Barrier Diodes** 20 to 100 Volts

## SOD-123FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.140	.152	3.55	3.85	
В	.100	.122	2.55	3.10	
С	.055	.075	1.40	1.90	
D	.035	.053	0.90	1.35	
Е	.020	.041	0.50	1.05	
G	.010		0.25		
Н		.010		.25	
	.010	.010	0.25	.25	

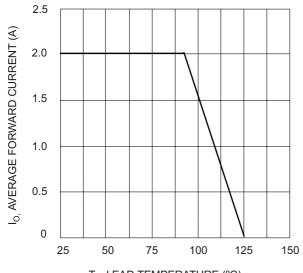
# SUGGESTED SOLDER



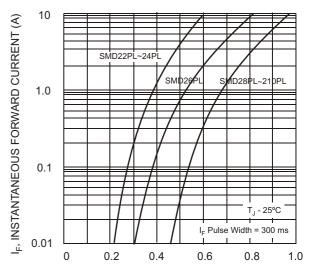
# SMD22PL~SMD210PL



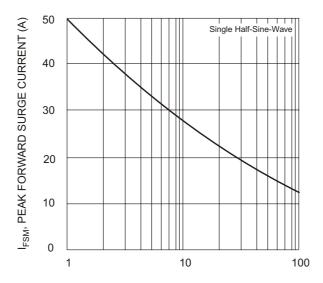
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T<sub>L</sub>, LEAD TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz 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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