

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Profile Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

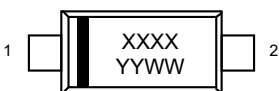
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value					Unit
		SMD22 PLHE3	SMD24 PLHE3	SMD26 PLHE3	SMD28 PLHE3	SMD210 PLHE3	
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V_{RMS}	14	28	42	56	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2					A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	50					A
Current Squared Time @ $1ms \leq t \leq 8.3ms$	I^2t	10.375					A ² s

Marking Code

Part Number	Marking Code
SMD22PLHE3	M2
SMD24PLHE3	M4
SMD26PLHE3	M6
SMD28PLHE3	M8
SMD210PLHE3	M10

Internal Structure

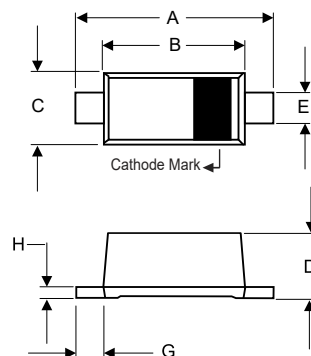
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	 XXXX = Marking Code YYWW = Date Code	
2	Anode		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

2 Amp Surface Mount Schottky Rectifier 20 to 100 Volts

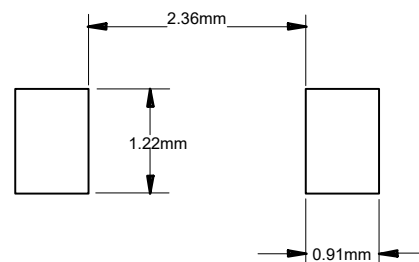
SOD-123FL



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.130	0.152	3.30	3.85	
B	0.100	0.122	2.55	3.10	
C	0.055	0.075	1.40	1.90	
D	0.035	0.053	0.90	1.35	
E	0.020	0.041	0.50	1.05	
G	0.010	----	0.25	----	
H	----	0.010	----	0.25	

SUGGESTED SOLDER PAD LAYOUT



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range	SMD22PLHE3 ~ SMD26PLHE3	-55		150	°C
T_J	Operating Junction Temperature Range	SMD28PLHE3 ~ SMD210PLHE3	-55		175	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		35		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		85		°C/W

Note:

1. Mounted on P.C.B. with 3mm*3mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage SMD22PLHE3 ~ SMD24PLHE3 SMD26PLHE3 SMD28PLHE3 ~ SMD210PLHE3	V_F	$I_F=2A; T_J=25^{\circ}C$			0.55 0.70 0.85	V
Reverse Current SMD22PLHE3 ~ SMD26PLHE3 SMD28PLHE3 ~ SMD210PLHE3	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$ at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$			0.1 10 0.01 5	mA
Junction Capacitance SMD22PLHE3 ~ SMD24PLHE3 SMD26PLHE3 SMD28PLHE3 ~ SMD210PLHE3	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		115 95 60		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

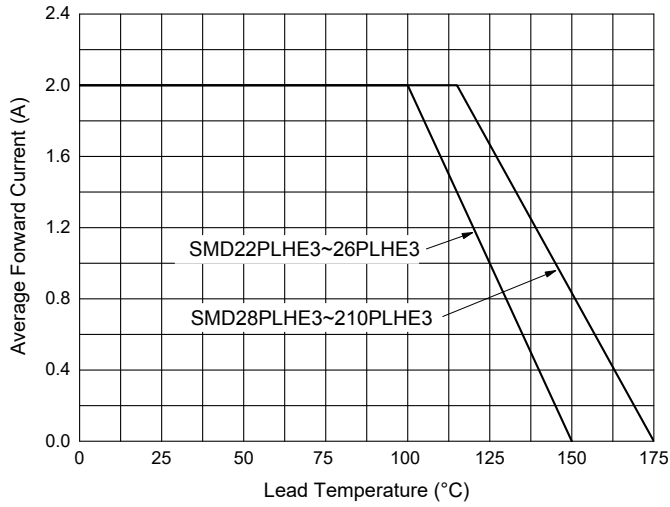


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

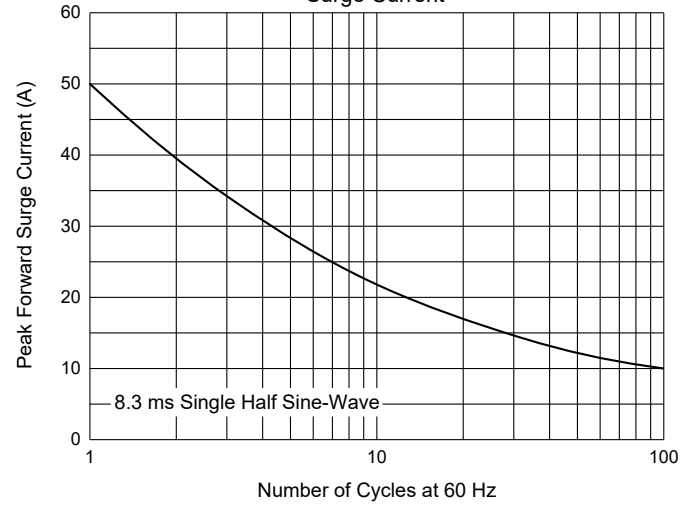


Fig. 3 - Typical Forward Characteristics

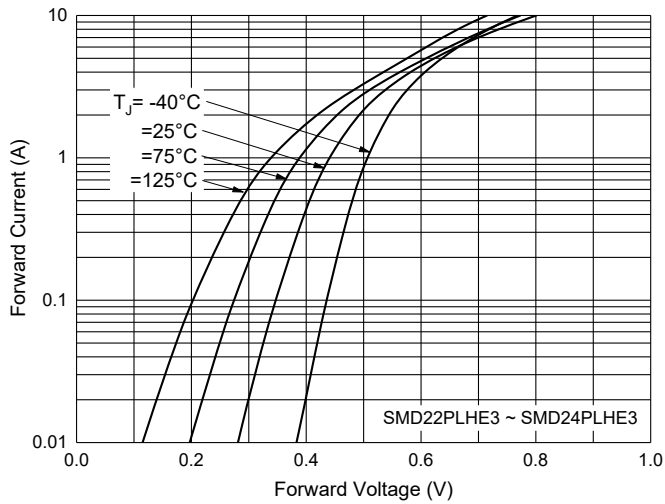


Fig. 4 - Typical Reverse Leakage Characteristics

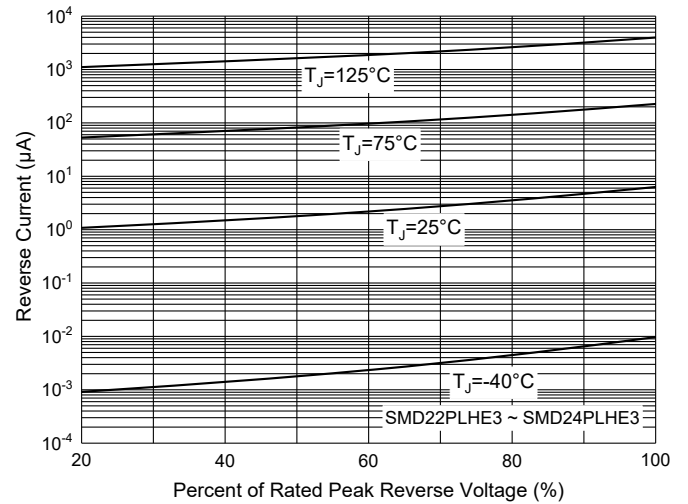


Fig. 5 - Typical Forward Characteristics

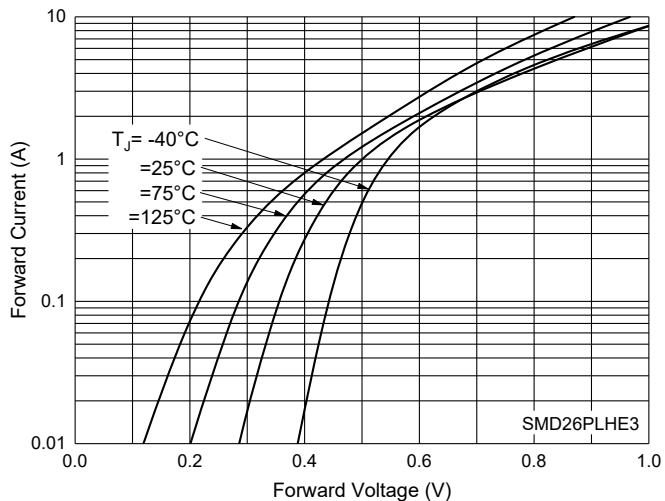
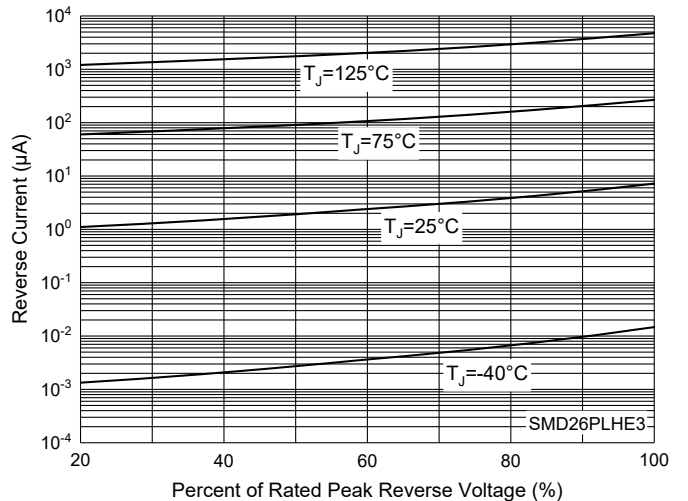


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

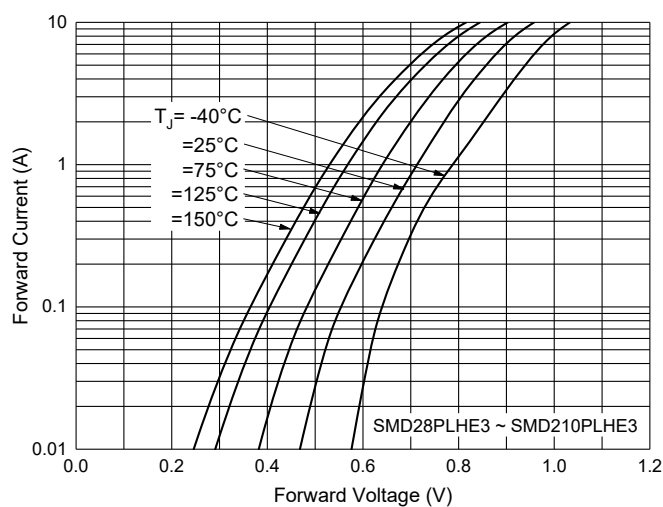


Fig. 8 - Typical Reverse Leakage Characteristics

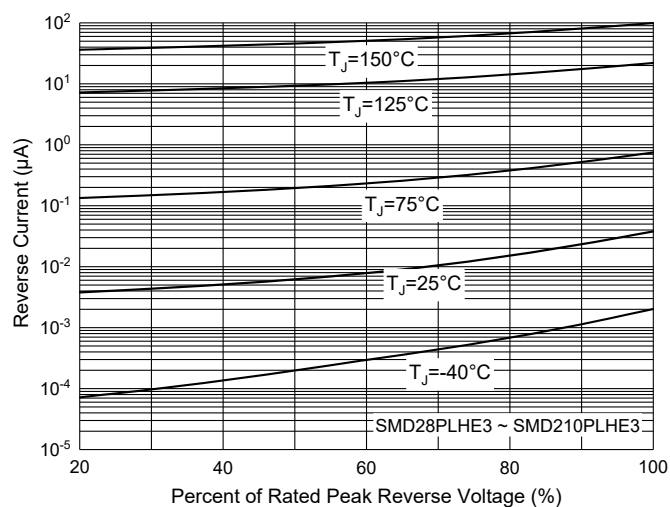


Fig. 9 - Capacitance Characteristics

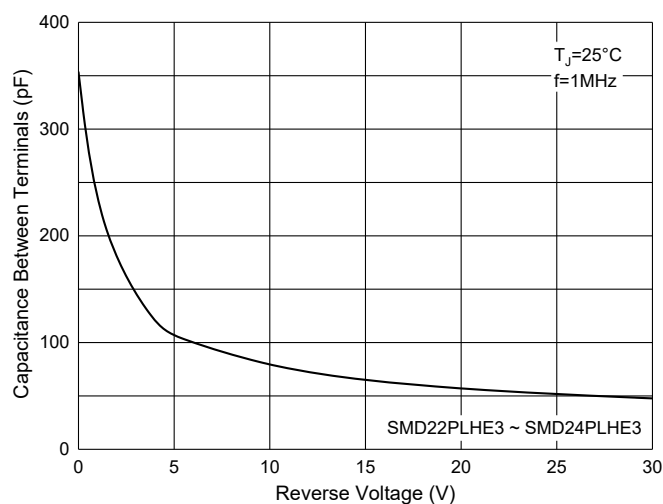


Fig. 10 - Capacitance Characteristics

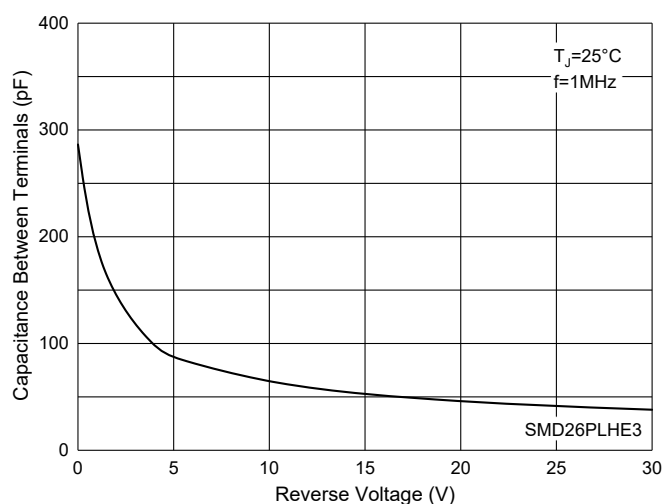
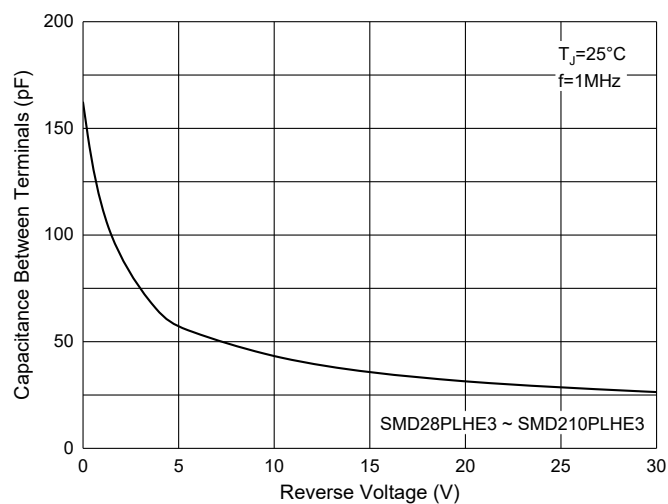


Fig. 11 - Capacitance Characteristics



Ordering Information

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

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