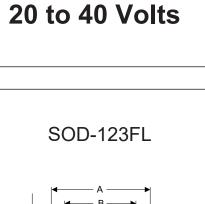


Features

- Halogen Free. "Green" Device (Note 1)
- High Current CapabilityLow 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)

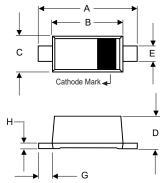
		Value				
Parameter	Symbol	SM5817PL	SM5818PL	SM5819PL	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}					
Working Peak Reverse Voltage	V_{RWM}	20	30	40	V	
DC Blocking Voltage	V_{R}					
RMS Reverse Voltage	V _{RMS}	14	21	28	V	
Average Rectified Forward Current	I _{F(AV)}	1		Α		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30				
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A²s	



1 Amp

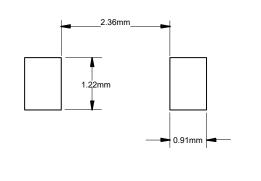
GifZWY'A cibh

GW ch_mF YWjZYf



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.130	0.152	3.30	3.85	
В	0.100	0.122	2.55	3.10	
С	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		
Н		0.010		0.25	

SUGGESTED SOLDER PAD LAYOUT



Marking Code

Part Number	Marking Code
SM5817PL	K2
SM5818PL	К3
SM5819PL	К4

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	XX = Marking code	1 oo 2

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.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		125	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		30		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		88		°C/W

Note:

1.Mounted on P.C.B. with 5mm*5mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage SM5817PL SM5818PL~SM5819PL	V _F	I _F =1A;T _J =25°C			0.45 0.53	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =100°C			0.05 9	mA
Junction Capacitance SM5817PL SM5818PL~SM5819PL	CJ	V _R =4V;f=1MHz;T _J =25°C		75 50		pF



Curve Characteristics

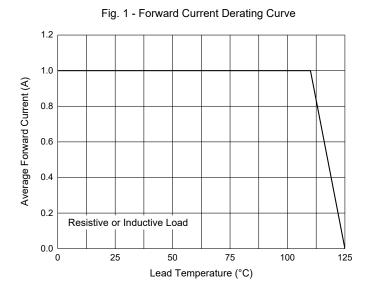
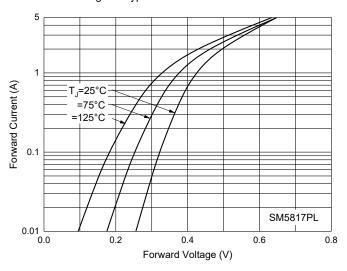
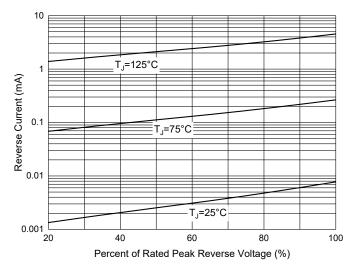


Fig. 3 - Typical Forward Characteristics







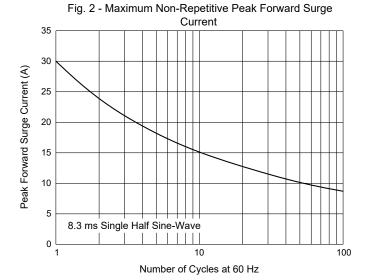


Fig. 4 - Typical Forward Characteristics

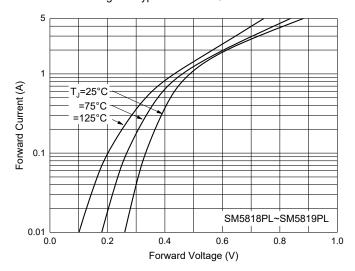
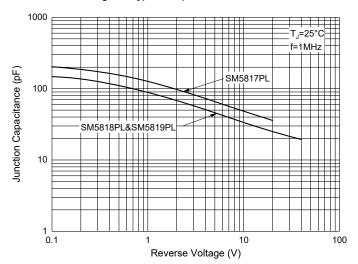


Fig. 6 - Typical Capacitance Characteristics





Ordering Information

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

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