

### Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- Low Profile Package

### Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 65°C/W Junction to Ambient(Note 3)
- Typical Thermal Resistance: 25°C/W Junction to Lead(Note 3)
- Typical Thermal Resistance: 15°C/W Junction to Case(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SL545BFL	SL545	45V	31.5V	45V

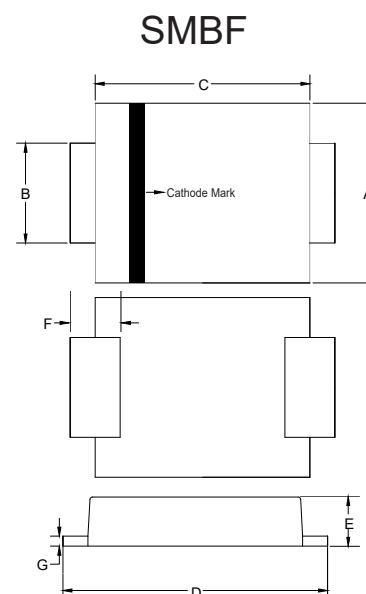
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5A	$T_C=110^\circ\text{C}$
Reverse Breakdown Voltage	$V_{BR}$	45V(Min)	$I_R=0.5\text{mA}$
Peak Forward Surge Current	$I_{FSM}$	120A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	0.45V 0.42V	$I_{FM}=5.0\text{A}; T_J=25^\circ\text{C}$ $I_{FM}=5.0\text{A}; T_J=125^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5mA 50mA	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	300pF	Measured at 1.0MHz $V_R=4.0\text{V}$

Note :

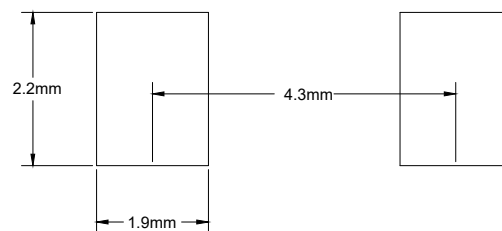
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.
3. Device Mounted on p.c.b. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

# 5 Amp Low VF Schottky Barrier Rectifier 45V



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.134	0.150	3.40	3.80	
B	0.075	0.083	1.90	2.10	
C	0.163	0.175	4.15	4.45	
D	0.201	0.220	5.10	5.60	
E	0.041	0.061	1.05	1.55	
F	0.028	0.053	0.70	1.35	
G	0.006	0.010	0.15	0.25	

### Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

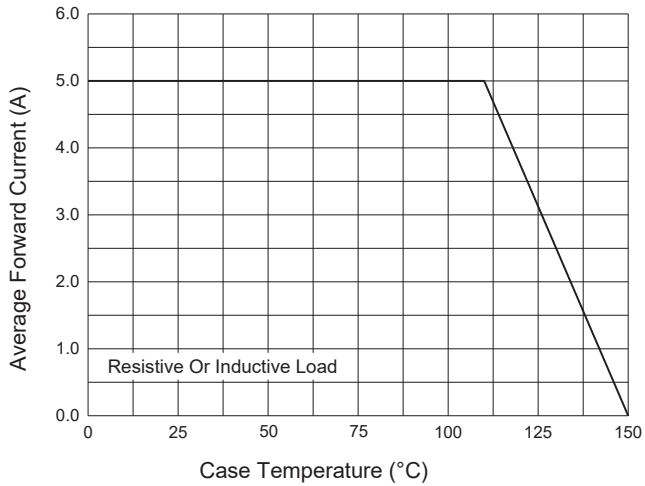


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

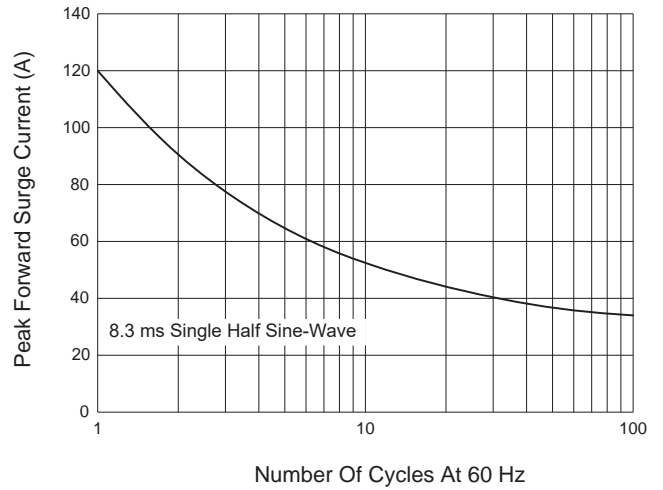


Fig. 3 - Typical Instantaneous Forward Characteristics

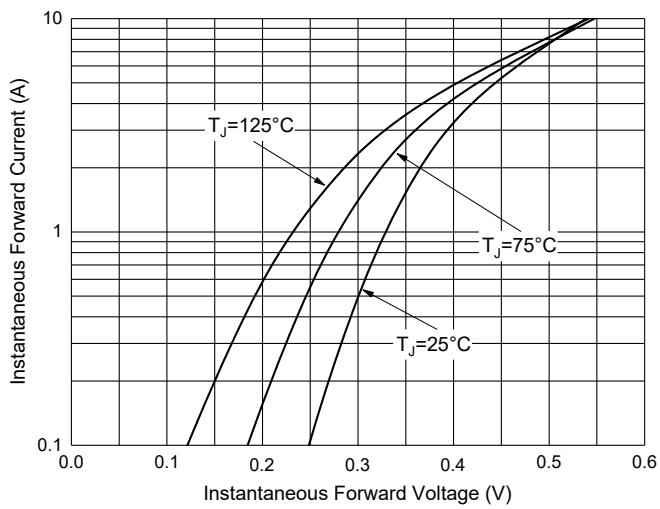
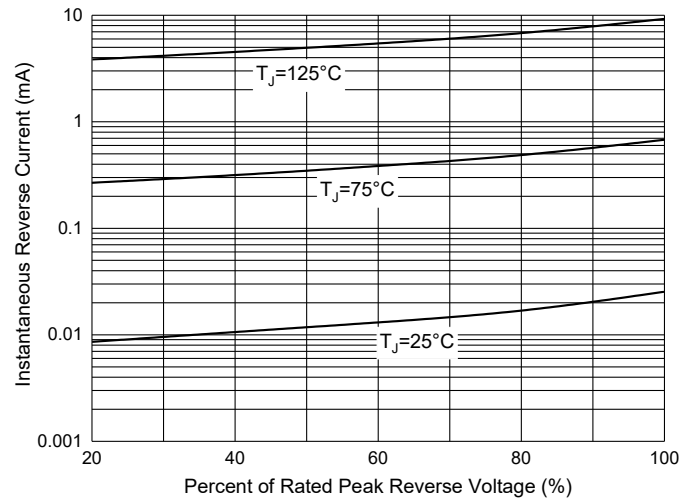


Fig. 4 - Typical Reverse Leakage Characteristics



**Ordering Information**

Device	Packing
SL545BFL-TP	Tape&Reel: 5Kpcs

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