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## 5.0Amp Surface Mounted Schottky Barrier Rectifiers

#### FEATURES :

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 C/10 seconds at terminals
- RoHS compliant.

#### MECHANICAL DATA :

- Case : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbol marking on body



SMAF



MAXIMUM RATINGS (Ratings at 25 $^{\circ}_{\circ}$	ambient temperature unless otherwise specified)

Characteristic	Symbol	SL54F	SL545F	SL55F	SL56F	SL58F	SL510F	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	40	45	50	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	28	31.5	35	42	56	70	V
Maximum DC blocking voltage	$V_{\text{DC}}$	40	45	50	60	80	100	V
Maximum average forward rectified current at $T_{\text{L}}{=}100^{\circ}\!\!\mathbb{C}$	l <sub>(AV)</sub>	5.0						
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	<sub>FSM</sub>	120						
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	0.48 0.55 0.70				70	V	
Maximum DC reverse current at rated DC blocking voltage $(T_A=25^{\circ}C / T_A=125^{\circ}C)$	l <sub>R</sub>	0.5 / 50 0.2 / 20						mA
Typical thermal resistance	R <sub>øja</sub>	70						
Operating junction temperature range	TJ	-55~+150						°C
storage temperature range	T <sub>STG</sub>	-55~+150						

#### RATINGS AND CHARACTERISTICS CURVES



Lead Temperature









Figure 4. TYPICAL REVERSE LEAKAGE **CHARACTERISTICS** 

80

100



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Figure 3. TYPICAL FORWARD VOLTAGE **CHARACTERISTICS** 

Package outlines : Dimensions in inches (millimeters)





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