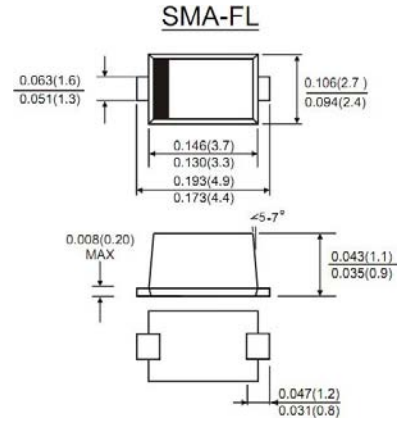


**5A SCHOTTKY BARRIER RECTIFIER**  
**Reverse Voltage 60 Volts Forward Current 5.0 Amperes**

**Features**

- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application



**Mechanical Data**

- Case: SMAF molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0027 grams (approximate)

**Maximum Ratings and Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SS560L	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC blocking voltage	$V_{DC}$	60	V
Average Rectified Output Current 0.375" (9.5mm) lead length	$I_o$	5.0	A
Peak forward surge current, 8.3 mS single half sine-wave superimposed on rated load	$I_{FSM}$	80	A
Maximum instantaneous forward voltage at $I_o$	$V_F$	0.52	V
Maximum DC reverse current at rated DC blocking voltage @ $T_J = 25^\circ C$	$I_R$	0.5	mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55	$^\circ C/W$
Operating junction temperature range	$T_J$	-55 to +150	$^\circ C$
Storage temperature range	$T_{STG}$	-55 to +150	$^\circ C$

Notes:

1. Thermal Resistance from Junction to Ambient 0.375"(9.5mm) lead length.

## Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

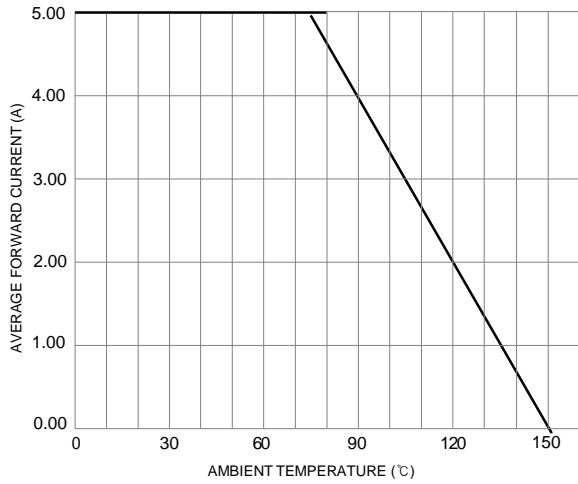


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

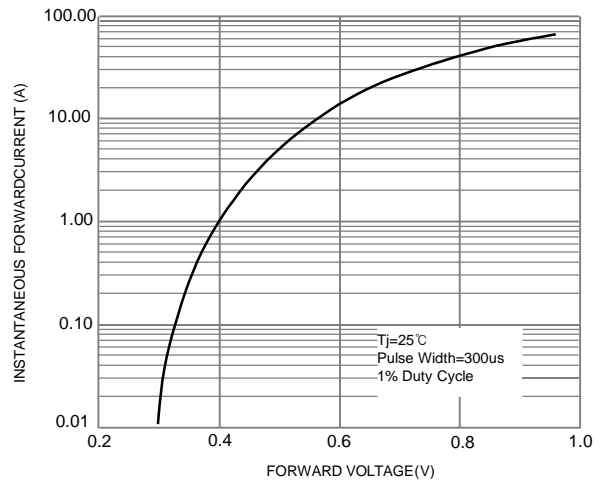


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

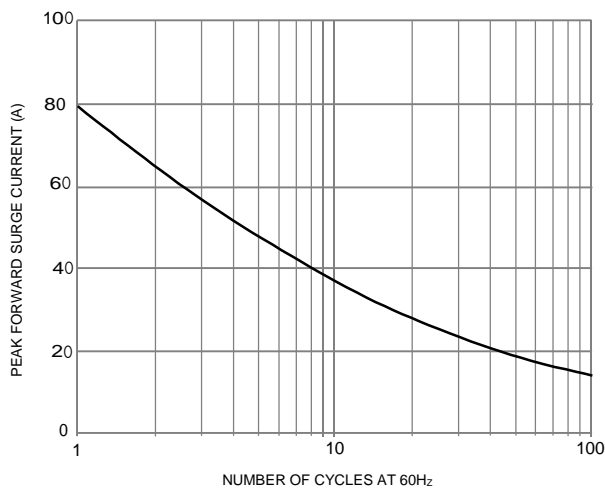


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

