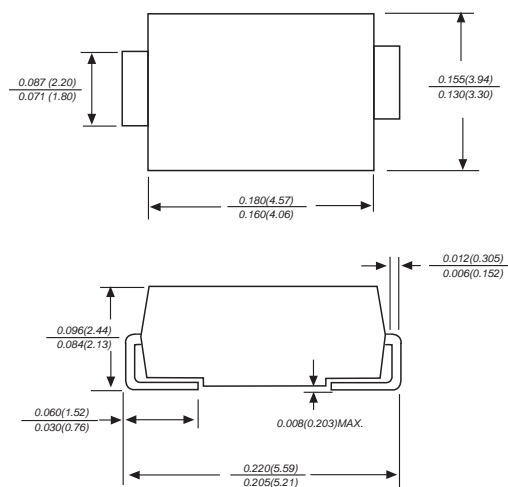


**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**
**SMB**


Dimensions in inches and (millimeters)

**FEATURES**

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

**MECHANICAL DATA**

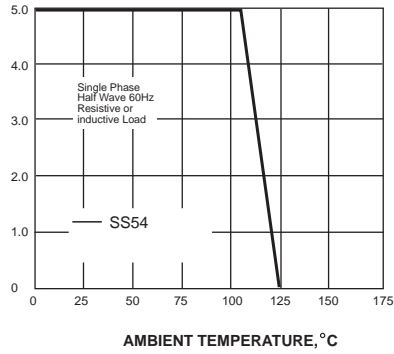
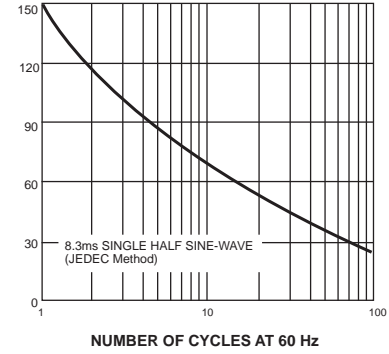
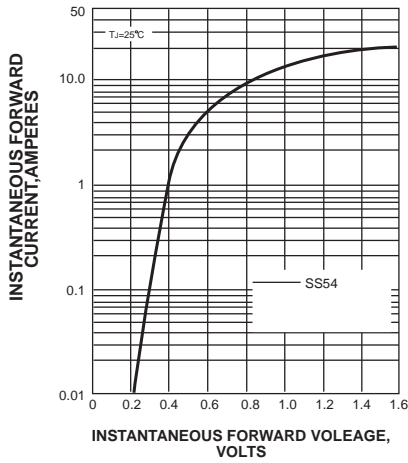
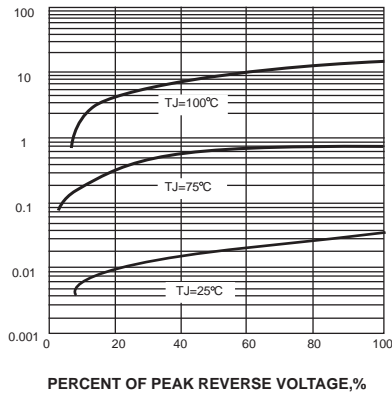
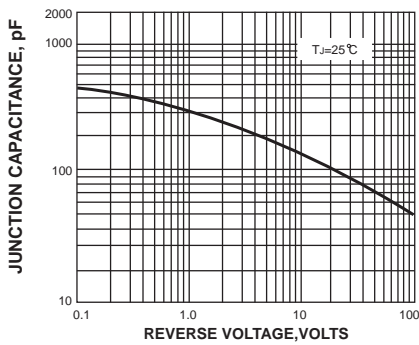
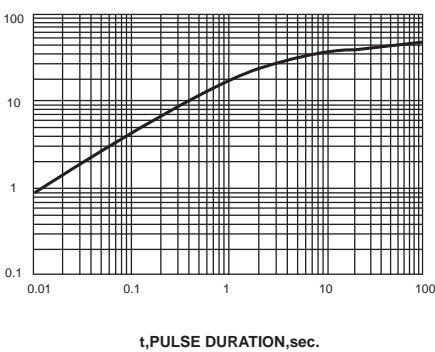
**Case:** JEDEC SMB molded plastic body  
**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight :** 0.003 ounce, 0.093 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number	SYMBOLS	SS54	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	VOLTS
Maximum RMS voltage	$V_{RMS}$	28	VOLTS
Maximum DC blocking voltage	$V_{DC}$	40	VOLTS
Maximum average forward rectified current at $T_L$ (see fig.1)	$I_{(AV)}$	5.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150.0	Amps
Maximum instantaneous forward voltage at 5.0A	$V_F$	0.55	Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	$I_R$	0.5 20	mA
Typical junction capacitance (NOTE 1)	$C_J$	200	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0	°C/W
Operating junction temperature range	$T_J$	-50 to +125	°C
Storage temperature range	$T_{STG}$	-50 to +150	°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

**AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES**
**FIG. 1- FORWARD CURRENT DERATING CURVE**

**PEAK FORWARD SURGE CURRENT,  
AMPERES**
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**

**FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

**FIG. 4-TYPICAL REVERSE CHARACTERISTICS**
**INSTANTANEOUS REVERSE CURRENT,  
MILLIAMPERES**

**FIG. 5-TYPICAL JUNCTION CAPACITANCE**

**TRANSIENT THERMAL IMPEDANCE,  
°C/W**
**FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE**


单击下面可查看定价，库存，交付和生命周期等信息

[>>YONGYUTAI\(永裕泰\)](#)