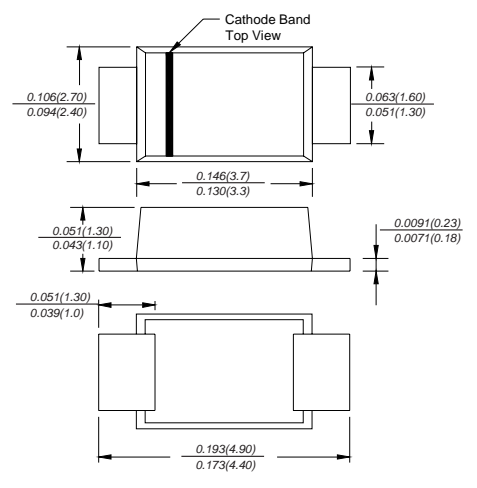


SS34F

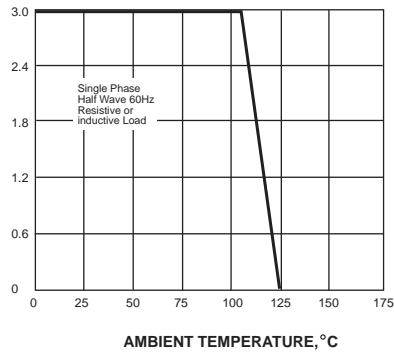
Surface Mount Schottky Barrier Rectifier

SMAF	FEATURES		
 <p style="text-align: center;">Dimensions in inches and (millimeters)</p>	<ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ For surface mounted applications ◆ Metal silicon junction, majority carrier conduction ◆ Low power loss, high efficiency ◆ Built-in strain relief, ideal for automated placement ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals 		
	<h3>MECHANICAL DATA</h3> <p> Case: JEDEC SMAF molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.0018 ounce, 0.064 grams </p>		
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	SS34F	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)	$I_{(AV)}$	2.8	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80.0	Amps
Maximum instantaneous forward voltage at 3.0A	V_F	0.55	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ C$	0.5
		$T_A=100^\circ C$	20.0
Typical junction capacitance (NOTE 1)	C_J	500	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	55.0	°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			

RATINGS AND CHARACTERISTIC CURVES

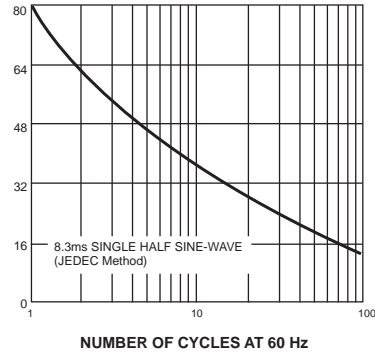
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



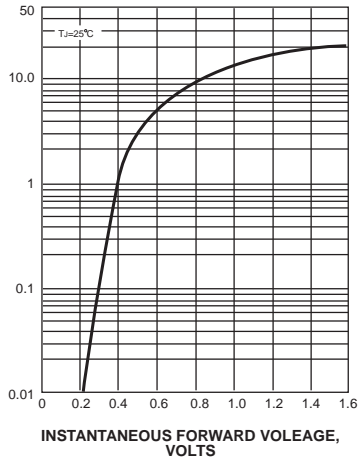
PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



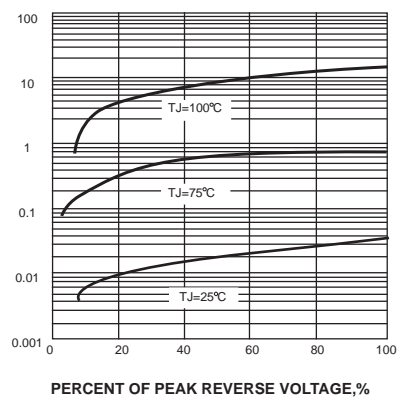
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



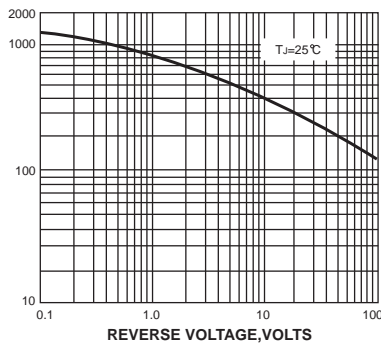
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



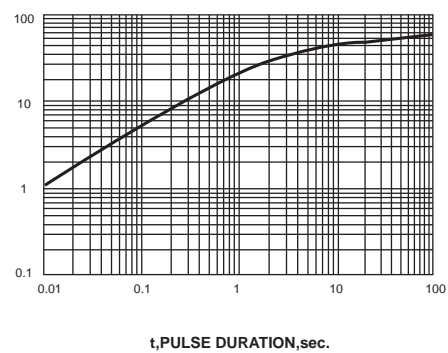
JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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