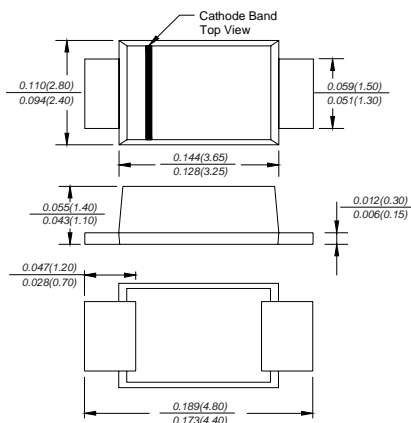




SL32F THRU SL310F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
 Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

SMAF



Dimensions in inches and (millimeters)

FEATURES

- ◆ 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

MECHANICAL DATA

Case: SMAF molded plastic body
Terminals: leads solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.0014 ounce, 0.038 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%.

MDD Catalog Number	SYMBOLS	SL32F	SL33F	SL34F	SL35F	SL36F	SL38F	SL310F	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V	
Maximum average forward rectified current at T_L (see fig. 1)	$I_{(AV)}$	3.0							A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	70.0							A	
Maximum instantaneous forward voltage at 3.0A	V_F	0.45		0.50		0.7		V		
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5		10.0		0.2		mA		
$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$						5.0				
Typical junction capacitance (NOTE 1)	C_J	500			300			pF		
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	88.0							°C/W	
Operating junction temperature range	T_J	-55 to +125					-55 to +150			°C
Storage temperature range	T_{STG}	-55 to +150							°C	

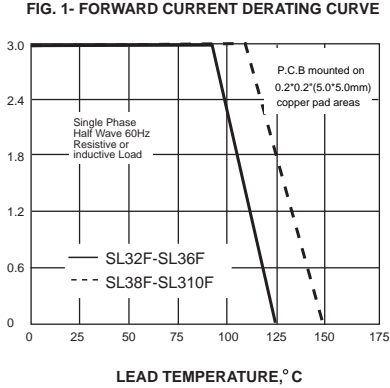
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



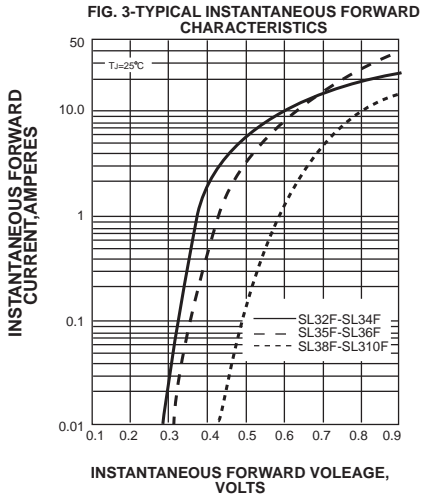
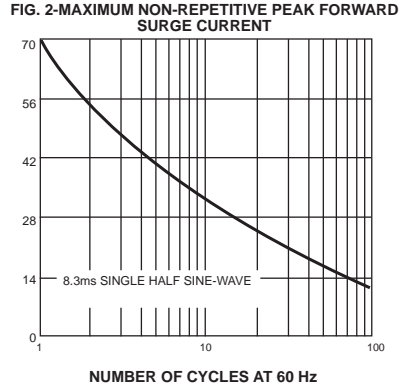
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RATINGS AND CHARACTERISTIC CURVES SL32F THRU SL310F

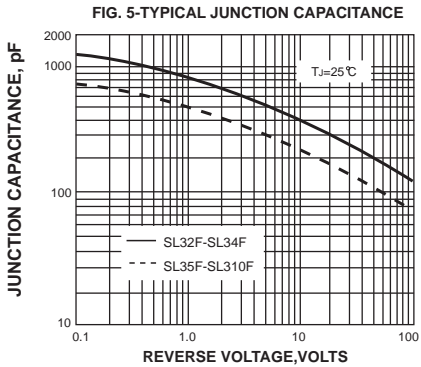
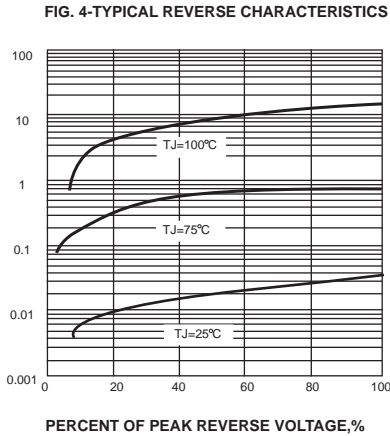
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



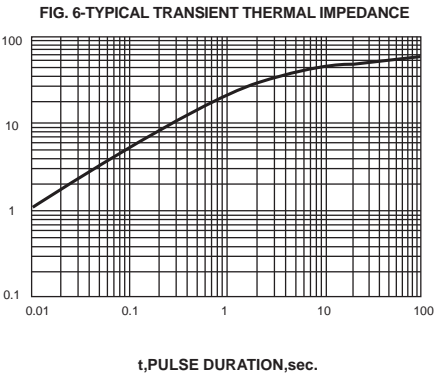
PEAK FORWARD SURGE CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



TRANSIENT THERMAL IMPEDANCE, °C/W



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

