

## SL52BF~SL510BF 5.0Amp Schottky Barrier Rectifiers

### Features

- ◆ For surface mounted applications
- ◆ Low forward voltage drop
- ◆ Low power loss,high efficiency
- ◆ Construction utilizes void-free molded plastic technique
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
260°C/10 seconds at terminals

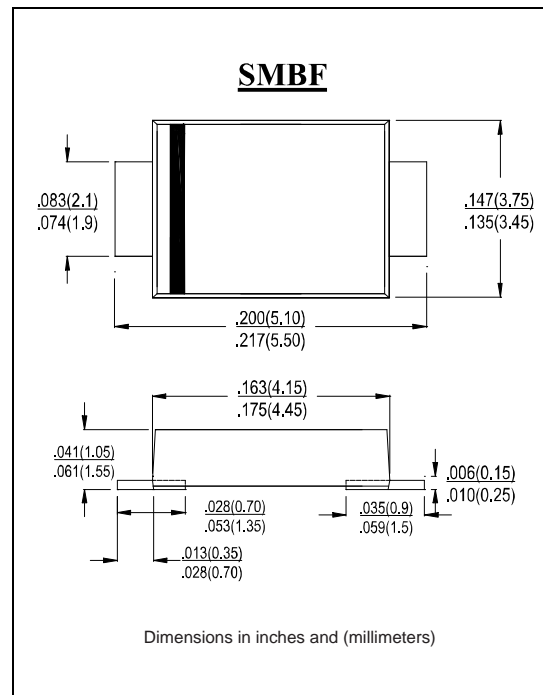
### Mechanical Data

Case: JEDEC SMBF molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



## 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	SL52BF	SL54BF	SL56BF	SL510BF	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	100	VOLTS
Maximum RMS voltage	$V_{RMS}$	14	28	42	70	VOLTS
Maximum DC blocking voltage	$V_{DC}$	20	40	60	100	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	$I_{(AV)}$	5.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	120				Amps
Maximum instantaneous forward voltage at 5.0A	$V_F$	0.40	0.45	0.55	0.70	Volts
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	$I_R$	1.0			0.5	mA
		50.0			20.0	
Typical junction capacitance (NOTE 1)	$C_J$	380				pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	10				°C/W
Operating junction temperature range	$T_J$	-50 to +125				°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