

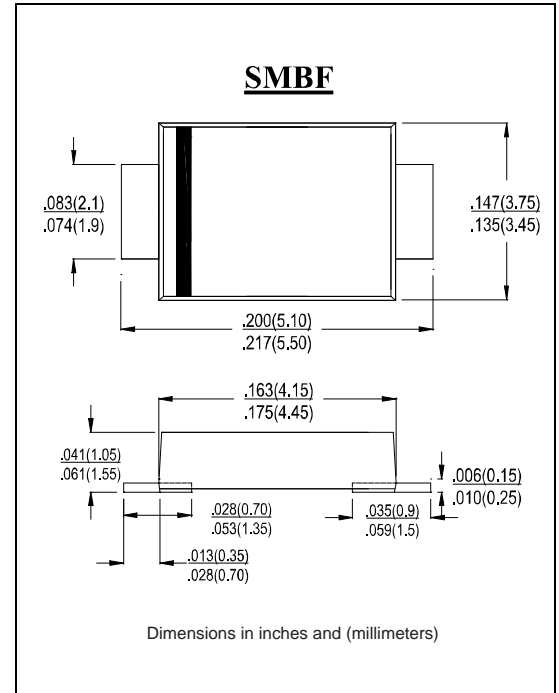
SL12BF~SL110BF 1.0Amp Schottky Barrier Rectifiers

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	SL12BF	SL14BF	SL16BF	SL110BF	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)	$I_{(AV)}$	1.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 1.0A	V_F	$T_A=25^\circ C$ 0.40	0.45	0.55	0.70	Volts
		$T_A=125^\circ C$ 0.35	0.40	0.50	0.62	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ C$ 1.0			0.5	mA
		$T_A=125^\circ C$ 50.0			20.0	
Typical junction capacitance (NOTE 1)	C_J	100				pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75				°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