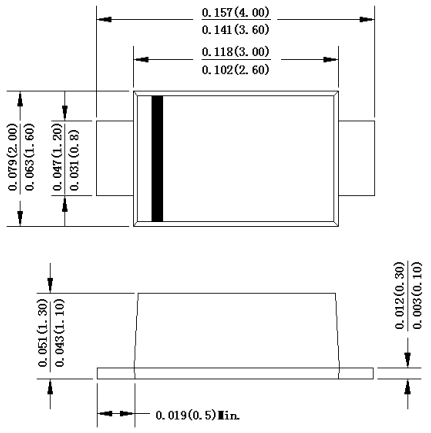
MBR0520~MBR05200
0.5Amp Surface Mount Schottky Barrier Rectifiers

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

SOD123FL



Dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC SOD123FL molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight : 0.0007 ounce, 0.02 grams

Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	MBR 0520	MBR 0540	MBR 0560	MBR 0580	MBR 05100	MBR 05150	MBR 05200	UNITS
	Mark Code	T2	T4	T6	T8	TA	TB	TC	
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	56	70	105	150	VOLTS
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T_L=110°C	$I_{(AV)}$	0.5							Amp
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 0.5A	V_F	0.55		0.70	0.85		0.95		Volts
Maximum DC reverse current T_A=25℃	I_R	0.5					0.1		mA
at rated DC blocking voltage T_A=100℃		20.0			10.0		2.0		
Typical thermal resistance (NOTE 1)	$R_{\theta JA}$	88.0							C/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150							°C

Note: 1.P.C.B. mounted with 5.0x5.0mm copper pad areas