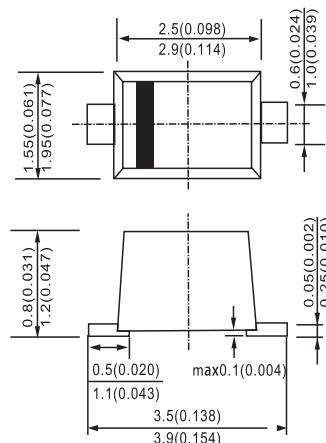


FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250°C for 10 Seconds At Terminals
- Low Forward Voltage

SOD-123FL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRX0520	-----	20V	14V	20V
MBRX0530	-----	30V	21V	30V
MBRX0540	-----	40V	28V	40V
MBRX0560	-----	60V	42V	60V
MBRX0580	-----	80V	56V	80V
MBRX05100	-----	100V	70V	100V

Electrical Characteristics @ 25°C Unless Other

Average Forward Current	$I_{F(AV)}$	0.5A	$T_J=90^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	20A	8.3ms half sine
Maximum Instantaneous Forward Voltage MBRX0520 MBRX0530 MBRX0540 MBRX0560 MBRX0580-05100	V_F	0.45V 0.55V 0.55V 0.70V 0.80V	$I_{FM}=0.5A$ $T_J=25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.3mA	$T_A=25^{\circ}\text{C}$
Typical Junction Capacitance	C_J	30pF	Measured at 1.0MHz, $V_R=4.0V$

RATINGS AND CHARACTERISTIC CURVES

MBRX0520 THRU MBRX05100

Figure 1 Typical Forward Characteristics

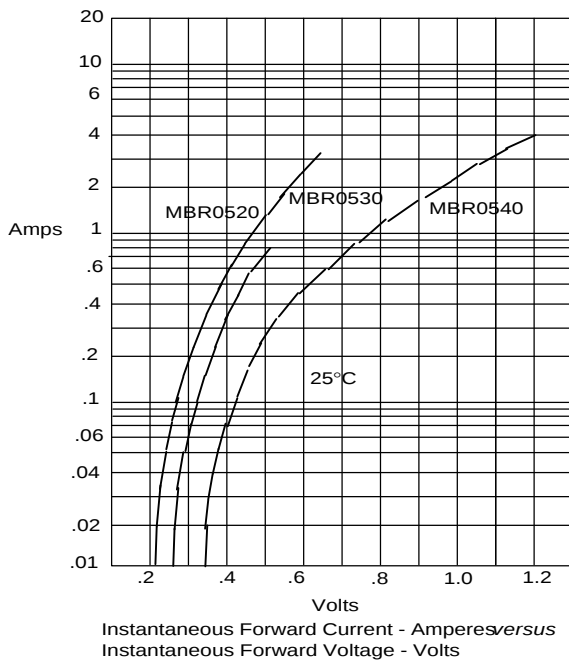


Figure 2 Junction Capacitance

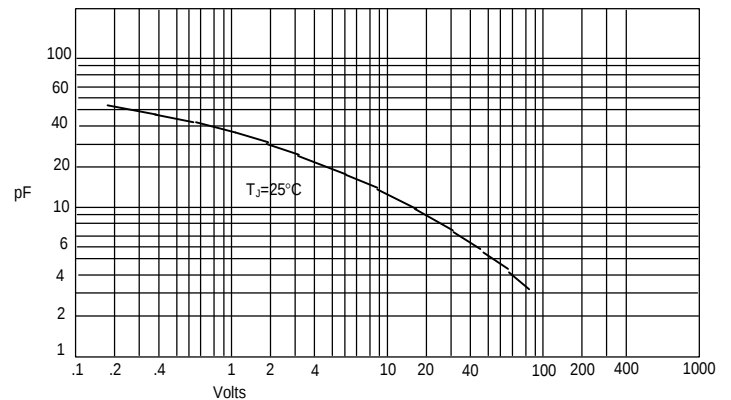


Figure 3 Forward Derating Curve

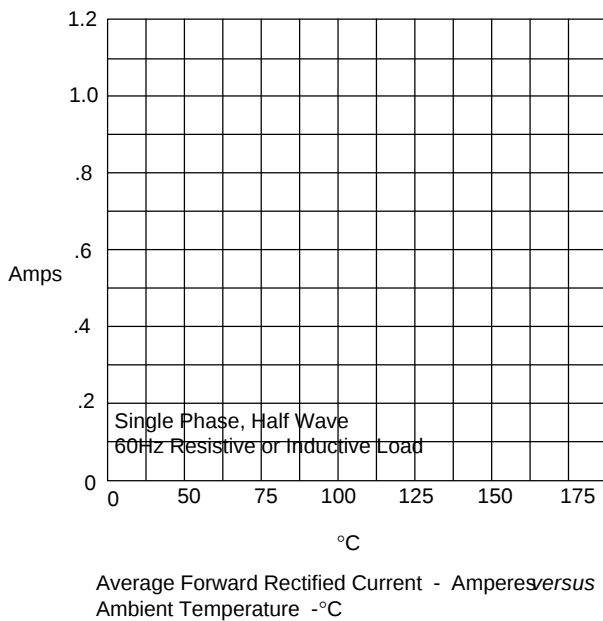


Figure 4 Peak Forward Surge Current

