



Micro Commercial Components

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MBRD320 THUR MBRD360

Features

- Low Switching Noise
- Low Forward Voltage Drop
- High Surge Current Capability
- ≠ Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

- Operating Junction Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +150°C

MCC Catalog Number	Device Marking	Maximum Reccurent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD320	MBRD320	20V	14V	20V
MBRD330	MBRD330	30V	21V	30V
MBRD340	MBRD340	40V	28V	40V
MBRD350	MBRD350	50V	35V	50V
MBRD360	MBRD360	60V	42V	60V

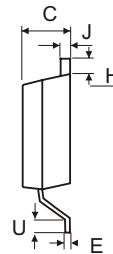
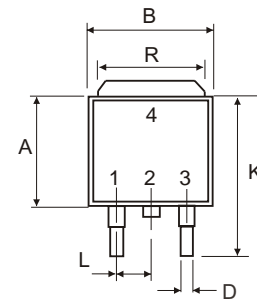
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MBRD320~MBRD340 MBRD350~MBRD360	V_F	0.55V 0.70V	$I_{FM} = 3.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage MBRD320~MBRD340 MBRD350~MBRD360	I_R	0.5mA 20mA 10mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ $T_A = 100^\circ\text{C}$

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

3 Amp Schottky Barrier Rectifier 20~60 Volts

DPAK



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.220	0.245	5.60	6.22
B	0.244	0.265	6.20	6.73
C	0.085	0.104	2.15	2.65
D	0.018	0.026	0.46	0.66
E	0.017	0.023	0.42	0.58
H	0.035	0.050	0.88	1.27
J	0.017	0.023	0.42	0.58
K	0.354	0.403	9.00	10.24
L	0.084	0.088	2.14	2.24
R	0.205	0.215	5.21	5.46
U	0.039		1.00	

FIG.1-FORWARD CURRENT DERATING CURVE

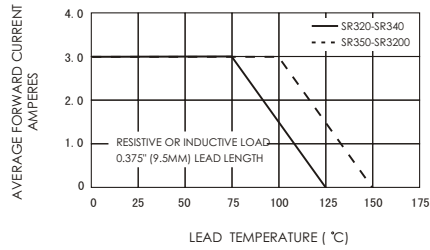


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

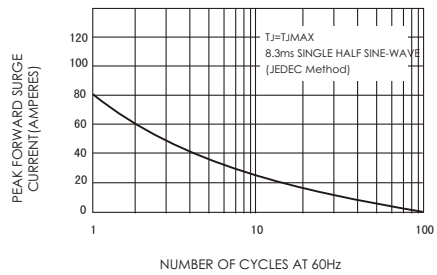


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

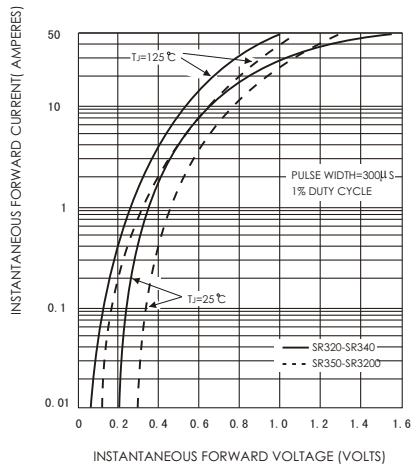


FIG.4-TYPICAL REVERSE CHARACTERISTICS

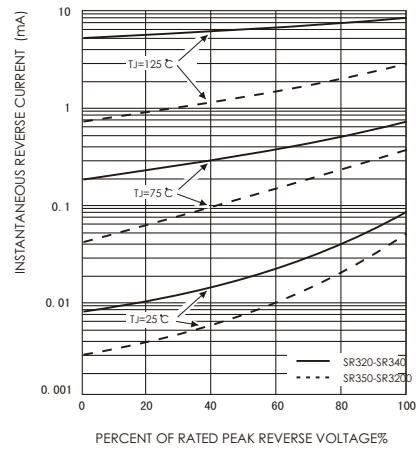


FIG.5-TYPICAL JUNCTION CAPACITANCE

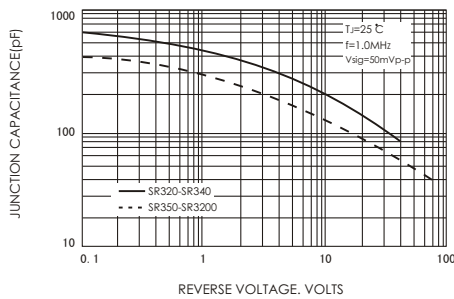
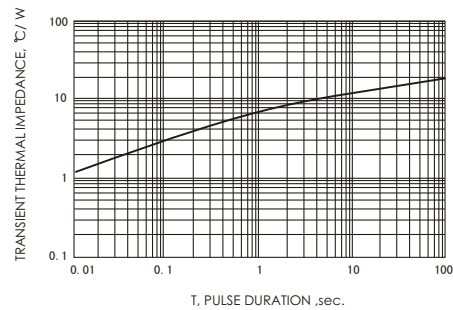


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE





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