



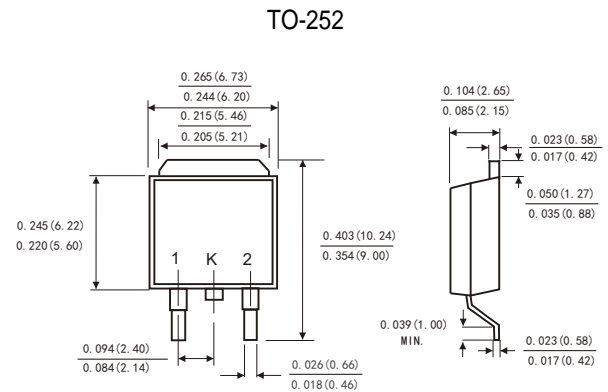
VOLTAGE RANGE: 35 to 200 Volts
FORWARD CURRENT: 20.0 Ampere

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * Low Power Loss, High Efficiency

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

- * Rating at 25 °C ambient temperature unless otherwise specified.
- * Single phase, half wave, 60 Hz, resistive or inductive load.
- * For capacitive load, derate current by 20%

Type Number	Symbol	MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	Unit
		2035 CD	2045 CD	2050 CD	2060 CD	2080 CD	20100 CD	20150 CD	20200 CD	
Maximum Repetitive Peak Reverse Voltage	VRRM	35	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	24	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	35	45	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	IF	20								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	120								A
Maximum Instantaneous Forward Voltage @10A	VF	0.75	0.85		0.9		0.95		V	
Maximum Reverse Current @ Rated VR TA=25 °C TA=125 °C	IR	100 15000								uA
Typical Junction Capacitance (Note 1)	Cj	650								pF
Typical Thermal Resistance(Note 2)	RθJA	30								°C/w
Operating and Storage Temperature Range	TJ	-65--+150								°C

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case



RATINGS AND CHARACTERISTICS CURVES

FIG1-TYPICAL FORWARD CHARACTERISTIC

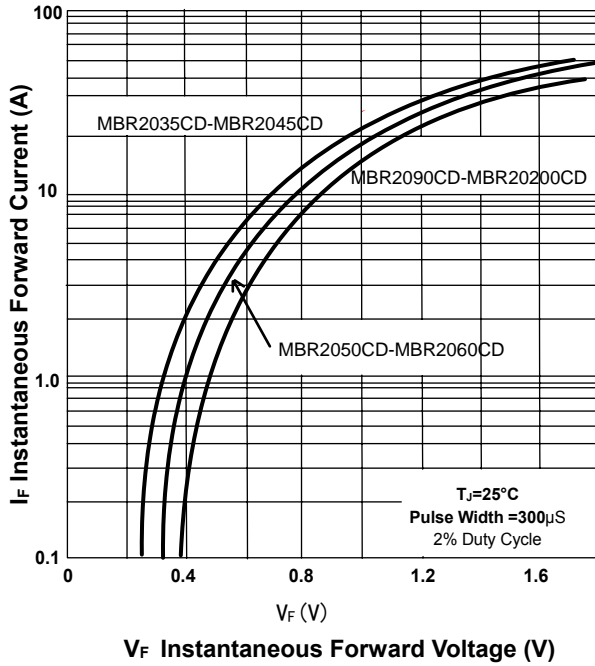


FIG2-FORWARD CURRENT DERATING CURVE

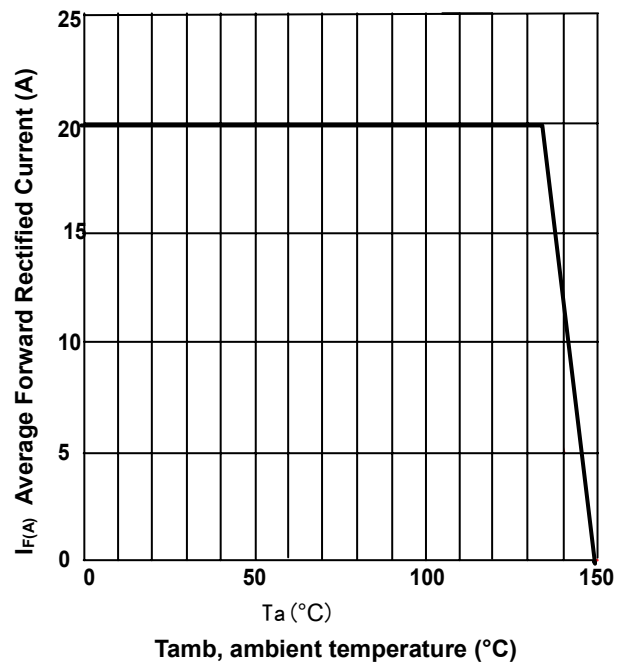


FIG3-MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

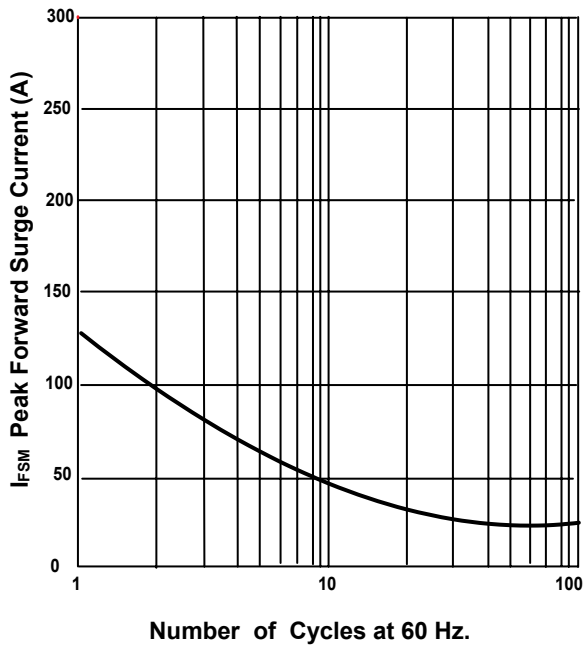
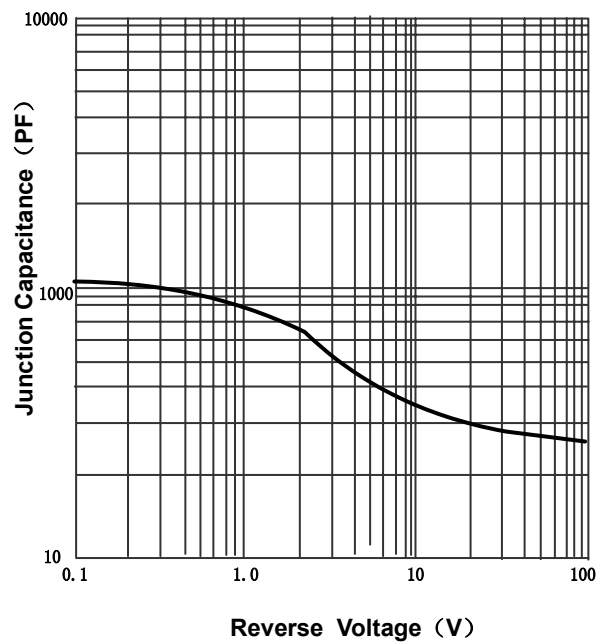


FIG4-TYPICAL REVERSE CHARACTERISTICS



Package	Packing	Box Size L×W×H(mm)	Quantity(pcs/box)	Carton Size L×W×H(mm)	Quantity(pcs/carton)
TO-252	80pcs/Tube	560×150×50	4000	570×290×180	40000
TO-252	2500pcs/Reel	335×335×40	2500	370×370×440	12500/25000