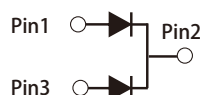
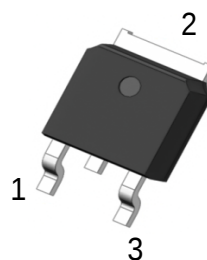




MBRD2040CT-MBRD20200CT 20 AMPS SCHOTTKY BARRIER RECTIFIER

Features:

- ☐ Low power loss,high efficiency.
High surge capacity
- ☐ For use in low voltage,high frequency inverters,
free wheeling,and polarity protection applications.
- ☐ Metal silicon junction,majority carrier conduction.
- ☐ High current Capability,low forward voltage drop.
- ☐ Guard ring for over voltage protection.



1.Anode 2.Cathode 3. Anode

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

PARAMETER		Symbol	MBRD 2040CT	MBRD 2045CT	MBRD 2050CT	MBRD 2060CT	MBRD 2080CT	MBRD 2090CT	MBRD 20100CT	MBRD 20150CT	MBRD 20200CT	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage		V _{R(DC)}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current		I _{F(AV)}	20									A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	175									A
Maximum Forward Voltage at 10A per leg		V _F	0.65		0.72		0.85			0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _j =25℃	I _R	0.1									mA
	T _j =125℃		20									mA
Maximum Operating Junction Temperature		T _j	150				175				℃	
Storage Temperature		T _{stg}	-55~+ 150				-65~+175				℃	
Typical Thermal Resistance		R _{θJC}	1.4									℃/W

Typical Characteristics

RATING AND CHARACTERISTIC CURVES

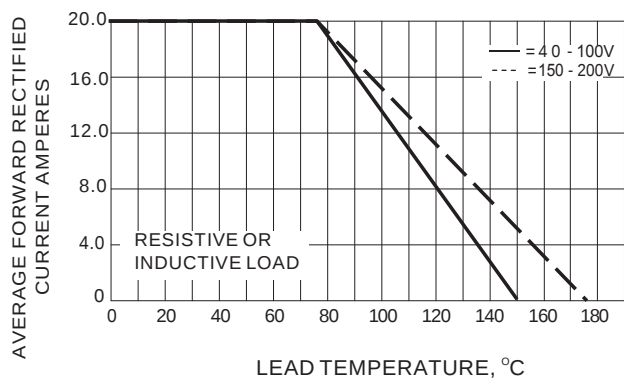


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

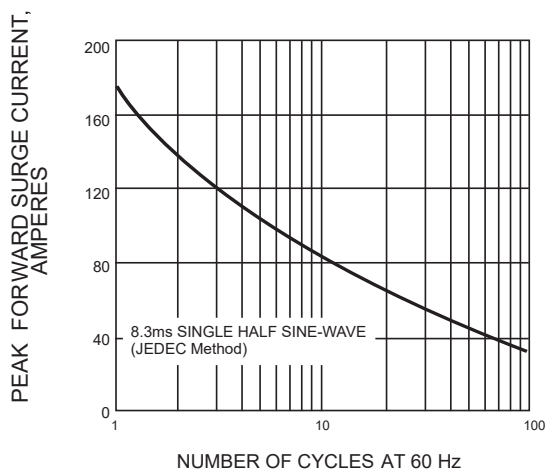


Fig.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

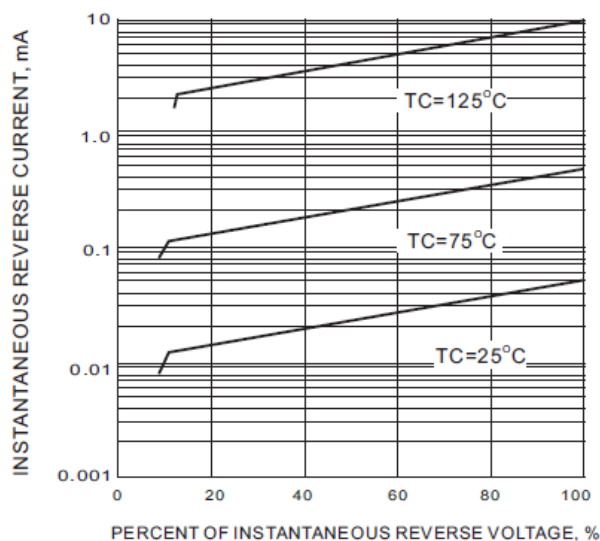


Fig.3 TYPICAL REVERSE CHARACTERISTIC

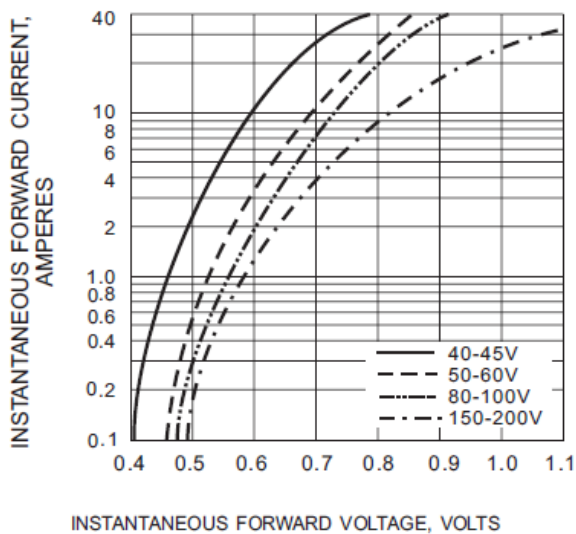


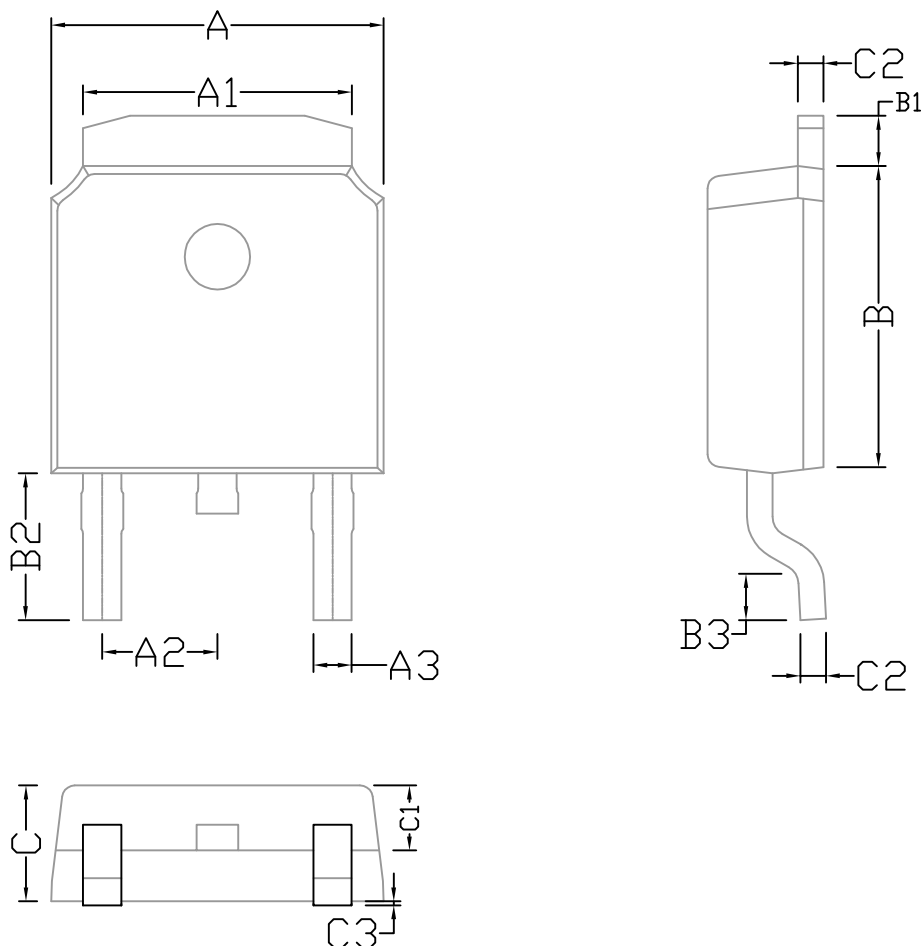
Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



MBRD2040CT-MBRD20200CT
20 AMPS SCHOTTKY BARRIER RECTIFIER

Package Dimension

TO-252



标注	最小	标准	最大	标注	最小	标准	最大	标注	最小	标准	最大
A	6.50	6.60	6.70	B	6.05	6.10	6.15	C	2.25	2.30	2.35
A1	5.28	5.33	5.38	B1	0.95	1.00	1.05	C1	0.76	0.81	0.86
A2	2.23	2.28	2.33	B2	2.85	2.9	2.95	C2	0.45	0.50	0.55
A3	0.70	0.75	0.80	B3	1.45	1.50	1.55	C3	0.01	0.05	0.10