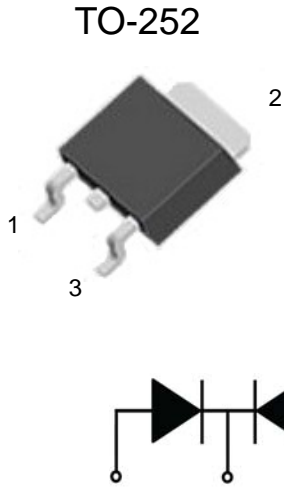
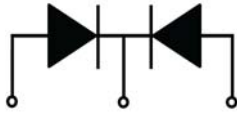


10A SCHOTTKY BARRIER RECTIFIER



1. Anode 2. Cathode 3. Anode



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.

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

Parameter	Symbol	MBRD 1040 CT	MBRD 1045 CT	MBRD 1050 CT	MBRD 1060 CT	MBRD 1080 CT	MBRD 1090 CT	MBRD 10100 CT	MBRD 10150 CT	MBRD 10200 CT	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		
Maximum DC Blocking Voltage	V _{R(DC)}	40	45	50	60	80	90	100	150	200		
Maximum Average Forward Current	I _{F(AV)}	10									A	
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150										
Maximum Forward Voltage at 5A per leg	V _F	0.65	0.72		0.85			0.92			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _j =25°C	0.1									mA	
	T _j =125°C	20										
Maximum Operating Junction Temperature	T _j	150				175						°C
Storage Temperature	T _{stg}	-55~+150				-65~+175						
Typical Thermal Resistance	R _{θJC}	1.4									°C/W	

MBRD1040CT THRU MBRD10200CT

Typical Characteristics

RATING AND CHARACTERISTIC CURVES

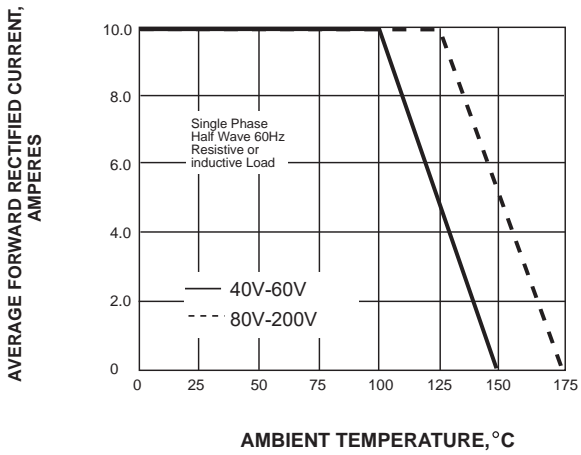


Fig.1 FORWARD CURRENT ERATING CURVE

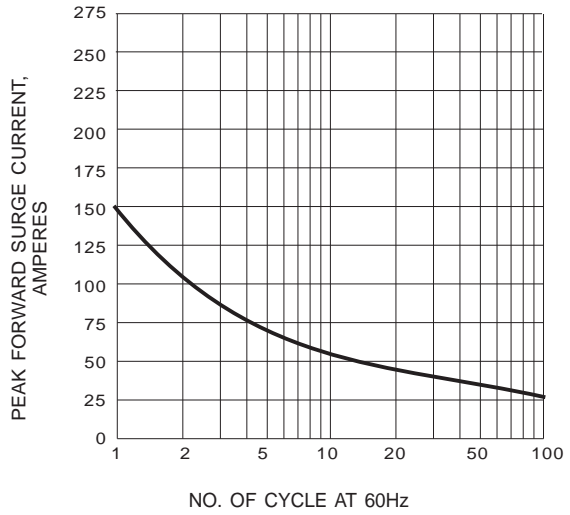


Fig.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

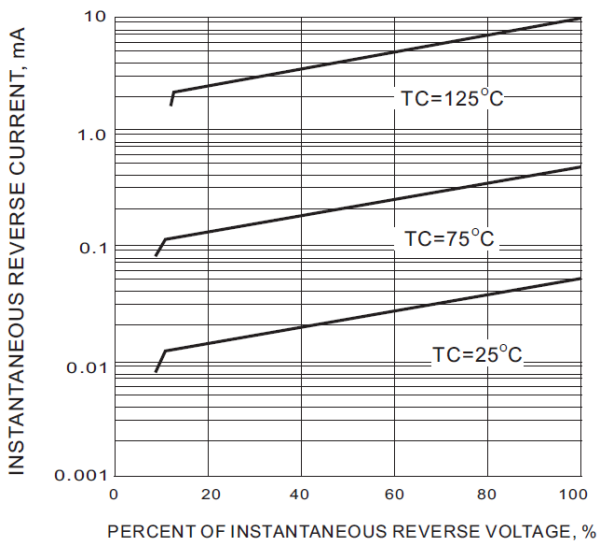


Fig.3 TYPICAL REVERSE CHARACTERISTIC

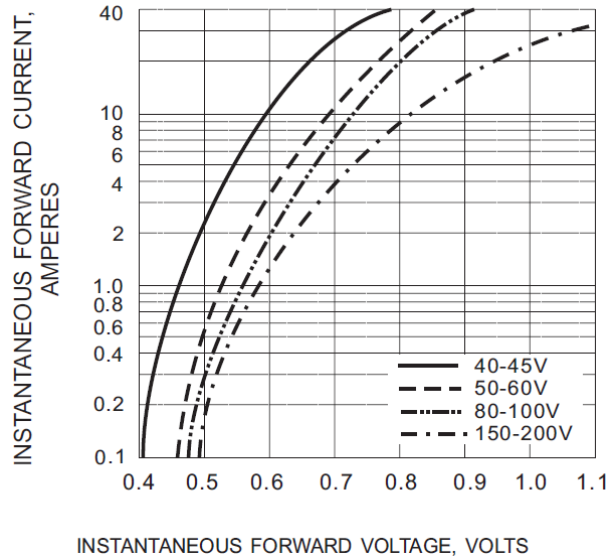


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

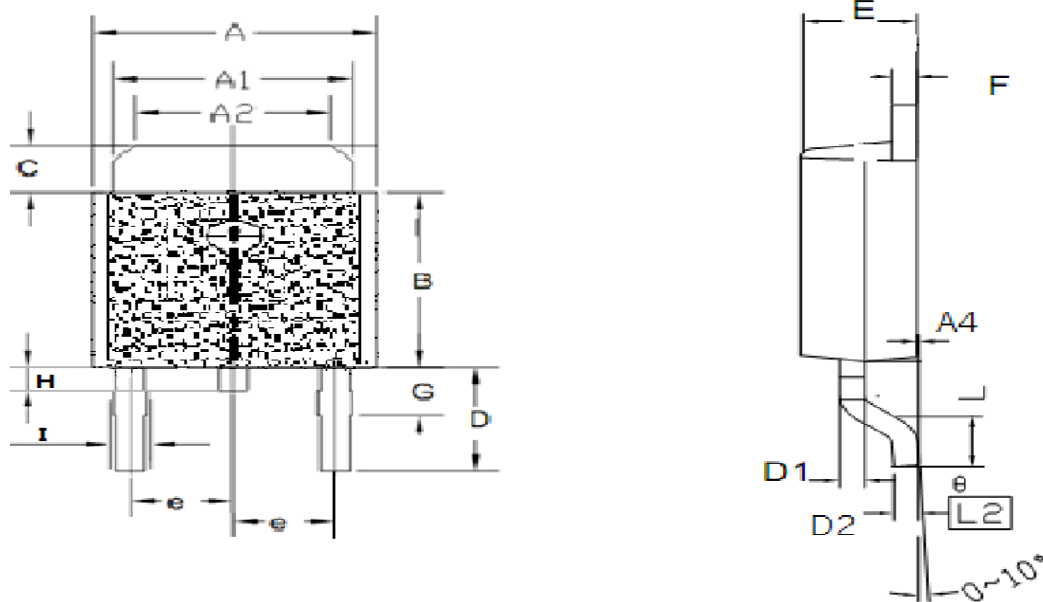
MBRD1040CT THRU MBRD10200CT

Ordering Information (Example)

P/N	PKG	QTY
MBRD1040CT-MBRD10200CT	T0-252	2500

Package Dimension

TO-252



UNIT: mm

Symbol	Min	Max	Symbol	Min	Max
A	6.40	6.60	D	2.90	3.10
A1	5.20	5.40	D1	0.45	0.55
A2	4.40	4.60	D2	0.45	0.55
A3	4.40	4.60	e	2.30	
A4	0.00	0.15	E	2.20	2.40
A5	4.65	4.95	F	0.49	0.59
B	6.00	6.20	G	1.70	
B1	1.57	1.77	L	1.40	1.60
C	0.90	0.96	θ (度)	0.00	10.00
I	0.60	0.90	H	0.49	0.52