查询"MBRD620"供应商

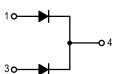
SWITCHMODE™ Power RectifiersDPAK Surface Mount Package

... in switching power supplies, inverters and as free wheeling diodes, these state—of—the—art devices have the following features:

- · Extremely Fast Switching
- Extremely Low Forward Drop
- Platinum Barrier with Avalanche Guardrings
- Guaranteed Reverse Avalanche

Mechanical Characteristics:

- · Case: Epoxy, Molded
- Weight: 0.4 gram (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Shipped 75 units per plastic tube
- Available in 16 mm Tape and Reel, 2500 units per reel, by adding a "T4" suffix to the part number
- Marking: B620T, B630T, B640T, B650T, B660T



MBRD620CT MBRD630CT MBRD640CT MBRD650CT MBRD660CT

MBRD620CT, MBRD640CT and MBRD660CT are Motorola Preferred Devices

SCHOTTKY BARRIER RECTIFIERS 6 AMPERES 20 TO 60 VOLTS



MAXIMUM RATINGS

Rating		Symbol	MBRD					Unit
Kating		Symbol	620CT	630CT	640CT	650CT	660CT	1 01111
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	20	30	40	50	60	Volts
Average Rectified Forward Current $T_C = 130$ °C (Rated V_R)	Per Diode Per Device	IF(AV)	3 6				Amps	
Peak Repetitive Forward Current, T _C = 130°C (Rated V _R , Square Wave, 20 kHz) Per Diode			6			Amps		
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)			75				Amps	
Peak Repetitive Reverse Surge Current (2 μs, 1 kHz)		I _{RRM}	1			Amp		
Operating Junction Temperature			-65 to +150			°C		
Storage Temperature		T _{stg}	-65 to +175				°C	
Voltage Rate of Change (Rated V _R)			10000				V/μs	

THERMAL CHARACTERISTICS PER DIODE

Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	6	°C/W
Maximum Thermal Resistance, Junction to Ambient (1)	$R_{\theta JA}$	80	°C/W

⁽¹⁾ Rating applies when surface mounted on the minimum pad size recommended.

SWITCHMODE is a trademark of Motorola, Inc.

Preferred devices are Motorola recommended choices for future use and best overall value.



MBRD620CT MBRD630CT MBRD640CT MBRD650CT MBRD660CT

ELECTRICAL CHARACTERISTICS PER DIODE

查谢州MBRsB6626号供应商rd Voltage (2)	٧F		Volts
i _F = 3 Amps, T _C = 25°C i _F = 3 Amps, T _C = 125°C i _F = 6 Amps, T _C = 25°C i _F = 6 Amps, T _C = 125°C		0.7 0.65 0.9 0.85	
Maximum Instantaneous Reverse Current (2) (Rated dc Voltage, T _C = 25°C) (Rated dc Voltage, T _C = 125°C)	ⁱ R	0.1 15	mA

⁽²⁾ Pulse Test: Pulse Width = 300 μ s, Duty Cycle \leq 2.0%.

TYPICAL CHARACTERISTICS

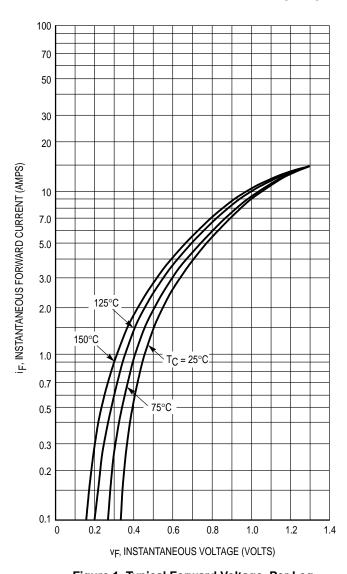
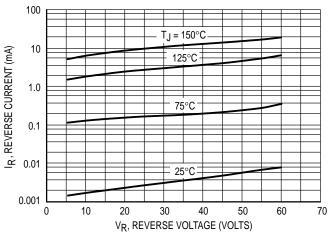


Figure 1. Typical Forward Voltage, Per Leg



*The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these curves if V_R is sufficient below rated V_R.

Figure 2. Typical Reverse Current,* Per Leg

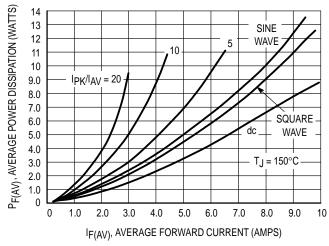
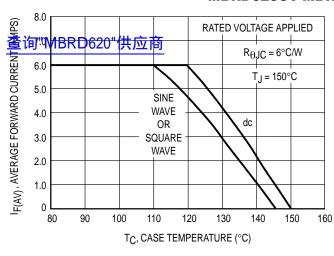


Figure 3. Average Power Dissipation, Per Leg

2 Rectifier Device Data

MBRD620CT MBRD630CT MBRD640CT MBRD650CT MBRD660CT



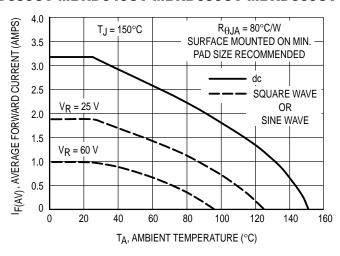


Figure 4. Current Derating, Case, Per Leg

Figure 5. Current Derating, Ambient, Per Leg

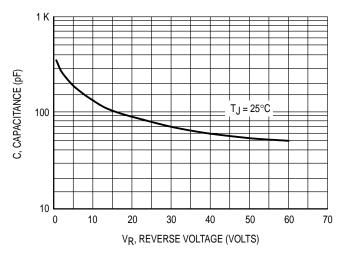


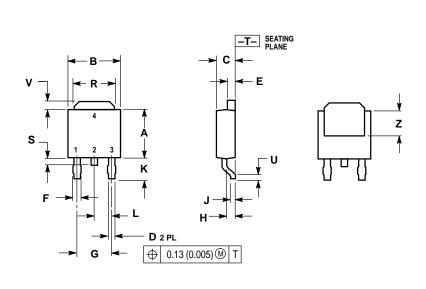
Figure 6. Typical Capacitance, Per Leg

Rectifier Device Data 3

MBRD620CT MBRD630CT MBRD640CT MBRD650CT MBRD660CT

PACKAGE DIMENSIONS

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NOTES

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M. 1982.
- 2. CONTROLLING DIMENSION: INCH.

	INC	HES	MILLIMETERS			
DIM	MIN	MAX	MIN	MAX		
Α	0.235	0.250	5.97	6.35		
В	0.250	0.265	6.35	6.73		
С	0.086	0.094	2.19	2.38		
D	0.027	0.035	0.69	0.88		
Е	0.033	0.040	0.84	1.01		
F	0.037	0.047	0.94	1.19		
G	0.180	BSC	4.58 BSC			
Н	0.034	0.040	0.87	1.01		
J	0.018	0.023	0.46	0.58		
K	0.102	0.114	2.60	2.89		
L	0.090 BSC		2.29 BSC			
R	0.175	0.215	4.45	5.46		
S	0.020	0.050	0.51	1.27		
U	0.020		0.51			
٧	0.030	0.050	0.77	1.27		
Z	0.138		3.51			

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