

Features

- High Current Capability and High Efficiency
- Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance(Per Leg) : 2.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL40U60CT	MBRBL40U60CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

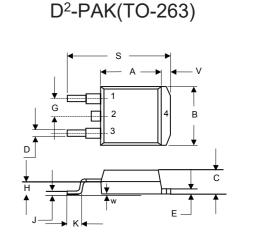
Average Forward Current	I _{F(AV)}	40A	T _C =120⁰C
Peak Forward Surge Current(Per Leg)	I _{FSM}	300A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.56V 0.53V(Typ.) 0.54V	I _F =20A; T _A =25⁰C I _F =20A; T _A =125⁰C
Maximum Peak Reverse Current	I _R	0.2mA 15mA	T _A =25⁰C; T _A =100⁰C

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

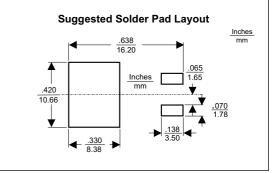
Internal Structure

PIN 1 •—		PIN 2
PIN 3 -	╺╺┝╸╴╴	Case

40 Amp Low VF Schottky Barrier Rectifier 60 Volts

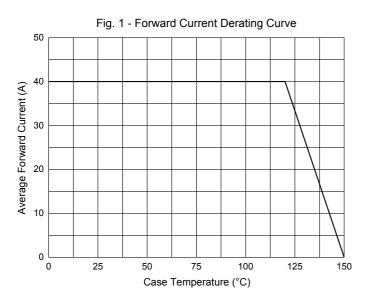


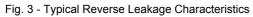
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
Е	0.045	0.055	1.14	1.40	
G	0.0	010	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
Κ	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

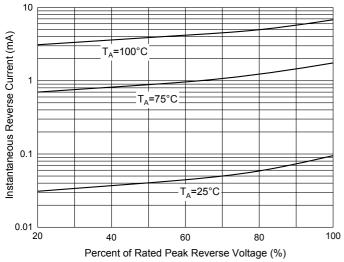












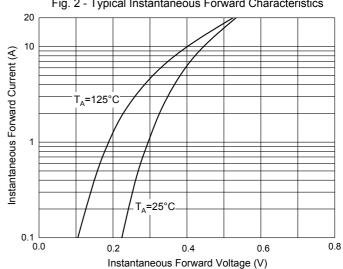


Fig. 2 - Typical Instantaneous Forward Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 800pcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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