

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

40 Amp Low VF Schottky Barrier Rectifier 60 Volts

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

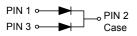
	MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
l	MBRBL40U60CT	MBRBL40U60CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

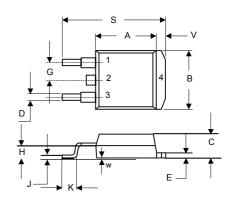
Average Forward Current	I _{F(AV)}	40A	T _C =120°C
Peak Forward Surge Current(Per Leg)	I _{FSM}	300A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.56V 0.53V(Typ.) 0.54V	I _F =20A; T _A =25°C I _F =20A; T _A =125°C
Maximum Peak Reverse Current	I _R	0.2mA 15mA	T _A =25°C; T _A =100°C

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

Internal Structure

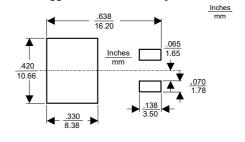


D2-PAK(TO-263)



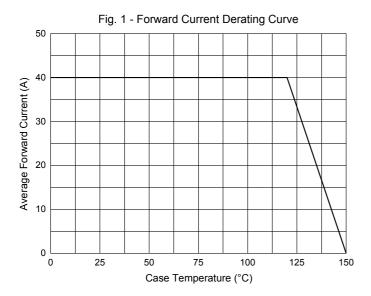
DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.331	0.370	8.40	9.40			
В	0.378	0.417	9.60	10.60			
С	0.165	0.189	4.20	4.80			
D	0.027	0.037	0.68	0.94			
E	0.045	0.055	1.14	1.40			
G	0.010		2.54		TYP.		
Н	0.096	0.134	2.43	3.40			
J	0.011	0.025	0.28	0.64			
K	0.071	0.131	1.80	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			

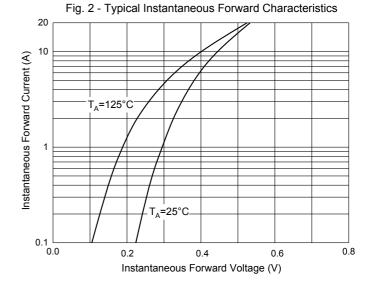
Suggested Solder Pad Layout

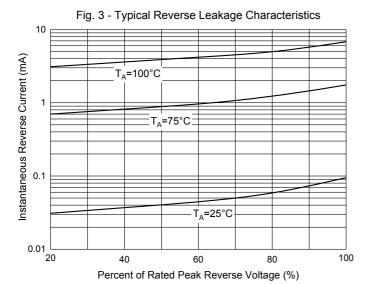




Curve Characteristics









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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