

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Planar Structure Die and Soft Recovery Characteristics

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 0.8 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MUR6060BH	MUR6060BH	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Rectified Forward Current	I _{F(AV)}	60A	T _C =95⁰C
Peak Forward Surge Current	I _{FSM}	600A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	2.4V(Max.) 1.9V(Typ.)	I _F =60A; T _J =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10µА 500µА	Tյ=25⁰C; Tj=125⁰C
Typical Junction Capacitance	CJ	400pF	Measured at 1.0MHz, V _R =4V

Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

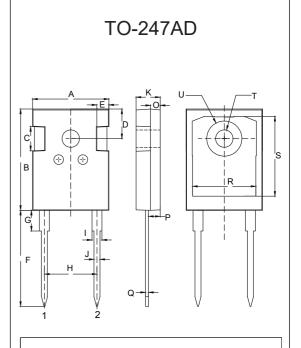
Reverse Recovery	t _{rr}	50ns(Typ.) 75ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		70ns(Typ.) 100ns(Typ.)	TJ=25⁰C TJ=125⁰C	
Peak recovery current	I _{RRM}	4.5A(Typ.) 11A(Typ.)	TJ=25⁰C TJ=125⁰C	I _F = 30 A di _F /dt = 200 A/μs V _R = 400 V
Reverse recovery charge	e recovery Q _{rr}		Tյ=25⁰C Tյ=125⁰C	

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a. Internal Structure

PIN 1

→ CASE PIN 2 •---

60 Amp Ultra Fast Recovery Rectifier 600 Volts



DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.602	0.642	15.30	16.30	
В	0.799	0.839	20.30	21.30	
С	0.189	0.205	4.80	5.20	
D	0.2	242	6.	15	BSC.
Е	0.091	0.106	2.30	2.70	
F	0.772	0.796	19.62	20.22	
G		0.169		4.30	
Н	0.4	128	10	.88	BSC.
I	0.075	0.087	1.91	2.21	
J	0.044	0.054	1.11	1.36	
Κ	0.189	0.205	4.80	5.20	
0	0.073	0.085	1.85	2.15	
Р	0.087	0.103	2.21	2.61	
Q	0.020	0.030	0.51	0.75	
R	0.512	0.535	13.00	13.60	
S	0.640	0.663	16.25	16.85	
Т	0.134	0.150	3.40	3.80	θ
U		0.287		7.30	Φ



Curve Characteristics

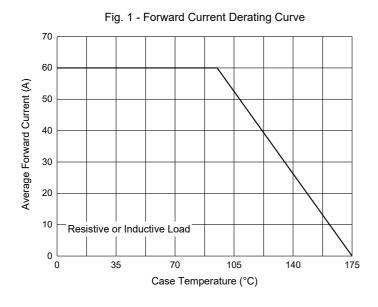


Fig. 3 - Typical Instantaneous Forward Characteristics

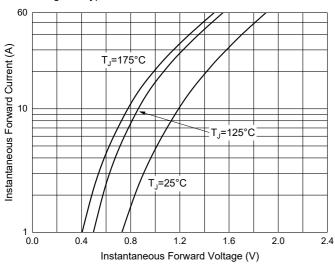
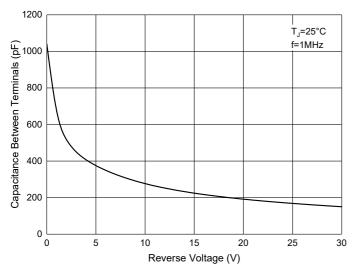


Fig. 5 - Capacitance Characteristics



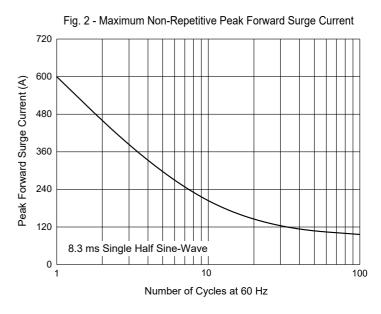


Fig. 4 - Typical Reverse Leakage Characteristics

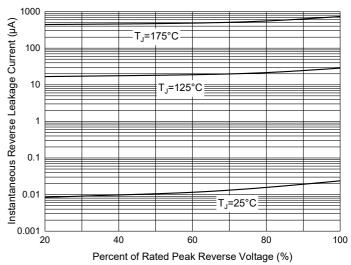
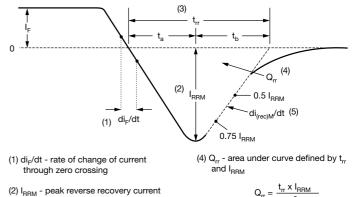


Fig. 6 - Reverse Recovery Waveform and Definitions



(3) t_{rr} - reverse recovery time measured from zero crossing point of negative going I_F to point where a line passing through 0.75 $\mathrm{I}_{\mathrm{RRM}}$ and 0.50 $\mathrm{I}_{\mathrm{RRM}}$ extrapolated to zero current.

t_{rr} x I_{RRM} $Q_{rr} =$ 2

(5) $di_{(rec)M}/dt$ - peak rate of change of current during t_b portion of t_{rr}



Ordering Information

Device	Packing
Part Number-BP	Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton

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

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