

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
- Thermal Resistance: 1 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MUR7560B	MUR7560B	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Rectified Forward Current	I _{F(AV)}	75A	T _C =25⁰C
Peak Forward Surge Current	I _{FSM}	500A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	2.75V(Max.) 2.0V(Typ.)	I _F =60A; T _J =25⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J =25⁰C; T _J =125⁰C
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V _R =4V

Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

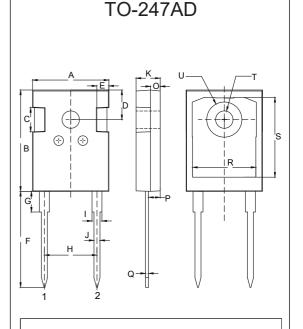
Reverse Recovery	t _{rr}	35ns(Typ.) 50ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		60ns(Typ.) 88ns(Typ.)	Tյ=25⁰C Tյ=125⁰C	I _F = 30A di _F /dt= -200A/µs V _R = 400V
Peak recovery current	I _{RRM}	3.4A(Typ.) 11.7A(Typ.)	Tյ=25⁰C Tյ=125⁰C	
Reverse recovery charge	Q _{rr}	100nC(Typ.) 510nC(Typ.)	T _J =25⁰C T _J =125⁰C	

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

PIN 1

→ CASE PIN 2 •---

75 Amp Ultra Fast Recovery Rectifier 600 Volts



	INCHES		MM		NOTE
DIM	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	0.242		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	0.428		10.88		BSC.
I	0.075	0.087	1.91	2.21	
J	0.044	0.054	1.11	1.36	
К	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	Φ
υ		0.287		7.30	Φ



Curve Characteristics

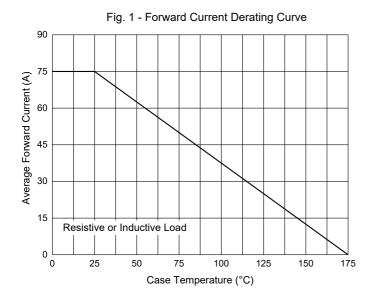
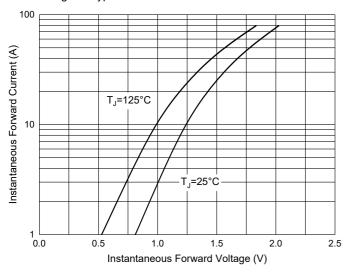
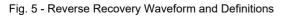
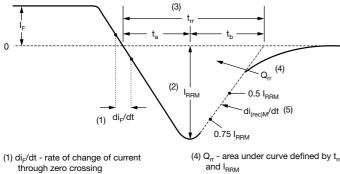


Fig. 3 - Typical Instantaneous Forward Characteristics







(2) ${\rm I}_{\rm RRM}$ - peak reverse recovery current

(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.

and I_{RRM}

$$Q_{rr} = \frac{t_{rr} \times I_{RRM}}{2}$$

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

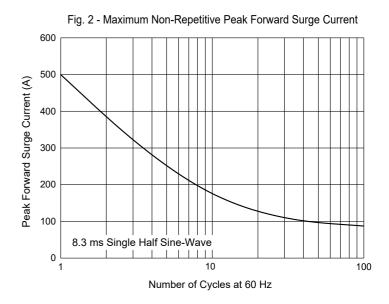
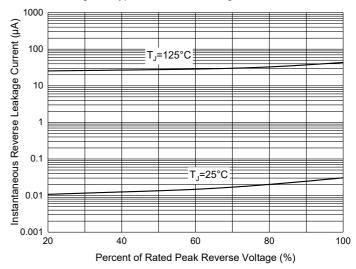


Fig. 4 - Typical Reverse Leakage Characteristics





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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