

High-reliability discrete products and engineering services since 1977

MUR6020-MUR6040

60A ULTRA FAST RECOVERY RECTIFIERS

FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix)

MAXIMUM RATINGS

Rating	Symbol	MUR6020	MUR6030	MUR6040	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	200	300	400	V
Average rectified forward current	I _{F(AV)}	60 @ T _C = 70°C		Α	
Peak repetitive forward current (Rated V _R , square wave, 20 kHz)	I _{FRM}	60 @ T _C = 150°C		Α	
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	600		А	
Operating and storage junction temperature range	T _J , T _{stg}	-65 to +175		°C	
Maximum thermal resistance Junction to case	R _{eJC}	0.8		°C/W	

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR6020	MUR6030	MUR6040	Unit
Maximum instantaneous forward voltage (1)					
$(I_F = 60A, T_C = 100^{\circ}C)$	V_{F}		1.4		V
$(I_F = 60A, T_C = 25^{\circ}C)$			1.5		
Maximum instantaneous reverse current (1)					
(Rated dc voltage, $T_C = 100$ °C)	I _R		10		mA
(Rated dc voltage, $T_C = 25^{\circ}C$)			60		μΑ
Maximum reverse recovery time $(I_F = 1.0A, di/dt = 15A/\mu s)$	t _{rr}		100		ns



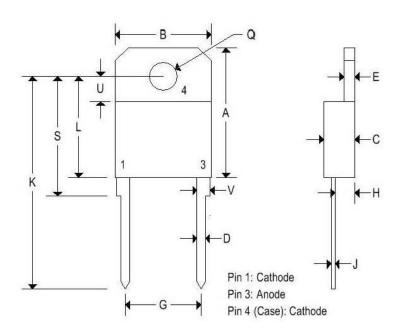
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MECHANICAL CHARACTERISTICS

Case	TO-218
Marking	Alpha-numeric
Pin out	See below



	TO-218					
	Inc	hes	Millimeters			
	Min	Max	Min	Max		
A	0.749	0.771	19.000	19.600		
В	0.551	0.570	14.000	14.500		
С	0.165	0.196	4.200	5.000		
D	0.040	0.051	1.000	1.300		
E	0.058	0.064	1.450	1.6500		
G	0.411	0.450	10.420	11.440		
Н	0.103	0.118	2.600	3.000		
J	0.016	0.023	0.400	0.600		
K	1.123	1,259	28.500	32.000		
L	0.579	0,602	14.700	15.300		
Q	0.158	0.167	4.000	4.250		
S	0.689	0.767	17.500	19.500		
U	0.134	0.149	3,400	3.800		
٧	0.060	0.078	1.500	2.000		



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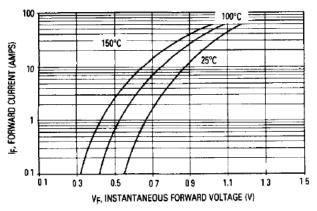


Figure 1. Typical Forward Voltage

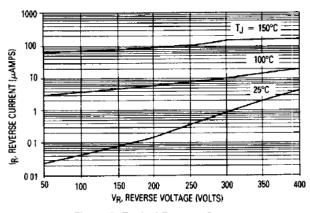


Figure 2. Typical Reverse Current

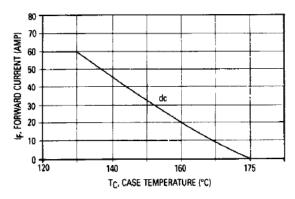


Figure 3. Current Derating, Case

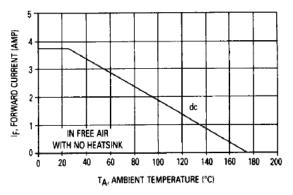


Figure 4. Current Derating, Ambient