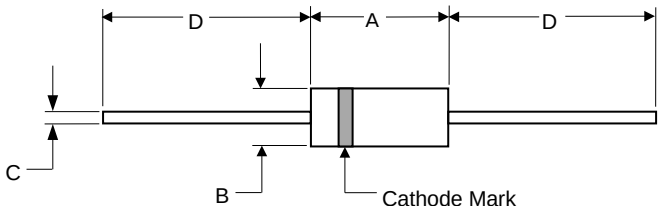
MUR260

ULTRAFAST RECTIFIER 2 AMPERES 600 VOLTS

Features

* Ultrafast 50 Nanosecond Recovery Times
* 175°C Operating Junction Temperature
* Low Forward Voltage
* Low Leakage Current
* High Temperature Glass Passivated Junction



RoHS COMPLIANT

DO-15				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.23	0.3	5.8	7.6
B	0.104	0.14	2.6	3.6
C	0.026	0.034	0.7	0.9
D	1	---	25.4	---

Mechanical Data

* Case: Epoxy, Molded
* Weight: 0.4 gram (approximately)
* Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
* Lead and Mounting Surface Temperature for Soldering Purposes: 220°C Max. for 10 Seconds, 1/16", from case
* Shipped in plastic bags, 1000 per bag
* Polarity: Cathode Indicated by Polarity Band
* Marking: MUR260

Maximum Ratings (TA=25℃ unless otherwise noted)

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	600 –	Volts
Average Rectified Forward Current (Note 1.) (Square Wave Mounting Method #3 Per Note 3.)	$I_{F(AV)}$	2.0 @ T_A = 60°C	Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 60 Hz)	I_{FSM}	35	Amps
Operating Junction Temperature and Storage Temperature Range	T_J/ T_{stg}	–65 to 175	°C

1. Pulse Test: Pulse Width = 300 µs, Duty Cycle ≤2.0%.

Thermal Characteristics (TA=25℃ unless otherwise noted)

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	See Note 3.	°C/W

Electrical Characteristics (TA=25℃ unless otherwise noted)

Characteristic	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage (Note 2.) (I_F = 2.0 Amp, T_J = 150°C) (I_F = 2.0 Amp, T_J = 25°C)	V_F	1.15 1.35	Volts
Maximum Instantaneous Reverse Current (Note 2.) (Rated dc Voltage, T_J = 150°C) (Rated dc Voltage, T_J = 25°C)	I_R	150 5.0	µA
Maximum Reverse Recovery Time (I_F = 1.0 Amp, di/dt = 50 Amp/ s) (I_F = 0.5 Amp, I_R = 1.0 Amp, I_{REC} = 0.25 A)	t_{rr}	75 50	ns
Maximum Forward Recovery Time (I_F = 1.0 A, di/dt = 100 A/ s, I_{REC} to 1.0 V)	t_{fr}	50	ns

2. Pulse Test: Pulse Width = 300 µs, Duty Cycle ≤2.0%.

Ratings and Characteristic Curves

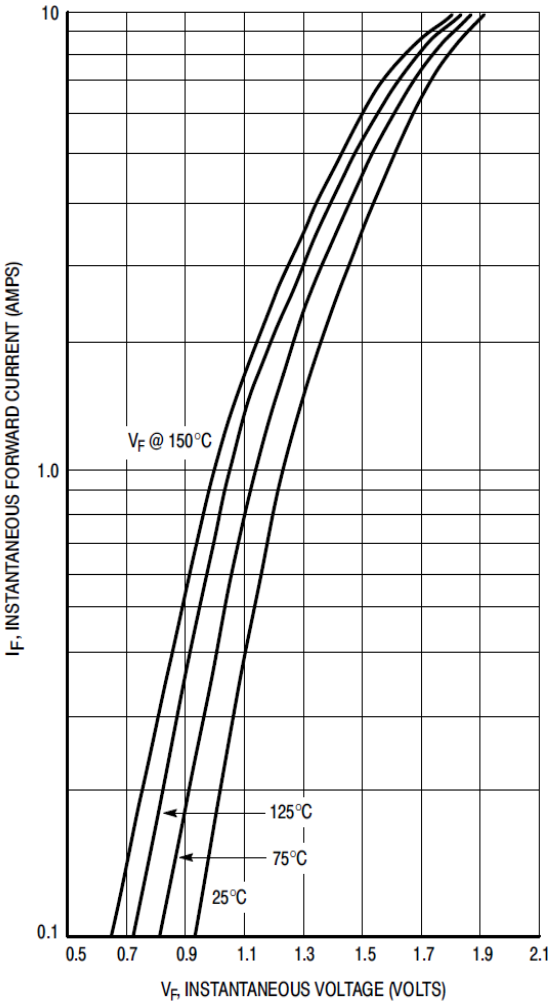


Figure 1. Maximum Forward Voltage

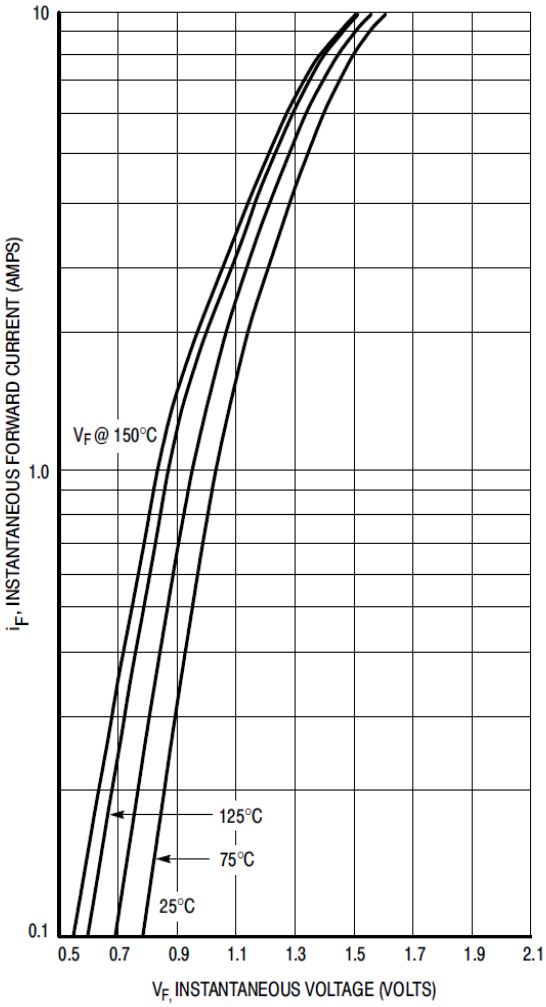


Figure 2. Typical Forward Voltage

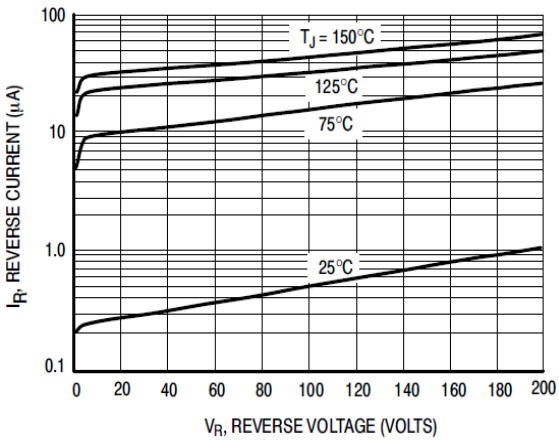


Figure 3. Maximum Reverse Current

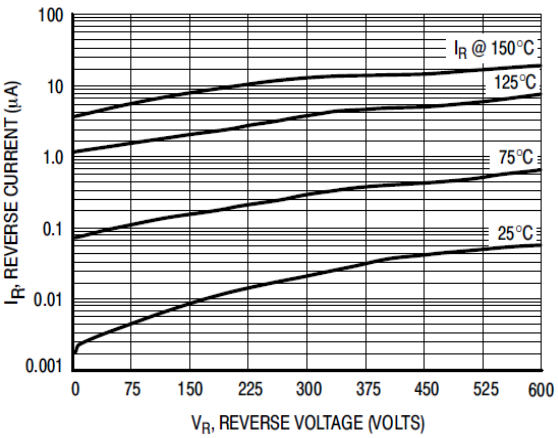


Figure 4. Typical Reverse Current

Ratings and Characteristic Curves

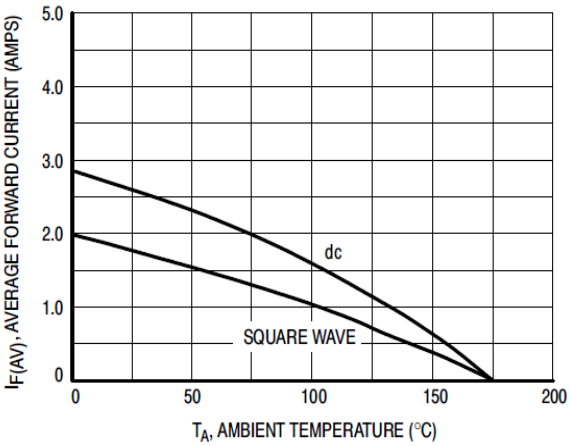


Figure 5. Current Derating

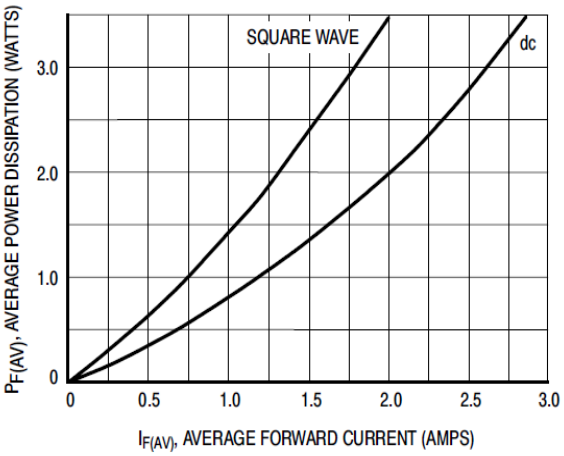


Figure 6. Power Dissipation

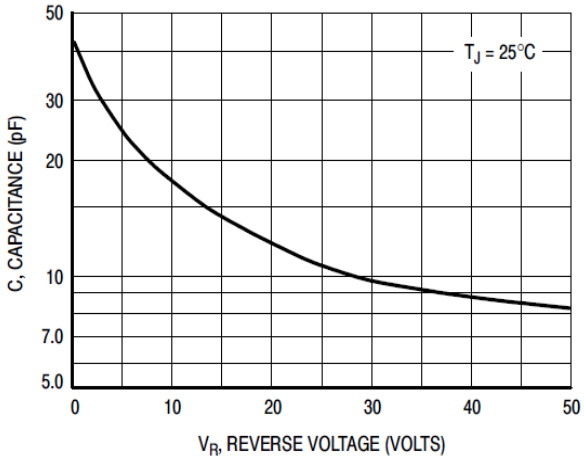


Figure 7. Typical Capacitance

Ordering Information

Part No.	Package	Packing Code	Packing
MUR260	DO-15	B05	500pcs/Bulk
MUR260	DO-15	A30	3000pcs/Ammo(52mm)
MUR260	DO-15	S30	3000pcs/Ammo(26mm)
MUR260	DO-15	R40	4000pcs/Reel