

Fast Rectifier - 4Amp 50~1000Volt

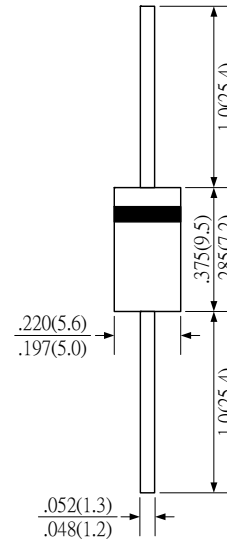
Features

- Fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- High Speed Switching
- High Reliability
- High Current Surge
- Glass Passivated Chip Junction
- Pb-Free Packages is Available

Mechanical Characteristics

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Mounting position: Any
- Weight: 1.20 grams

DO-27 / DO-201AD



Maximum ratings and Electrical characteristics

Rating	Symbol	MUR 405	MUR 410	MUR 415	MUR 420	MUR 440	MUR 460	MUR 480	MUR 4100	Unit
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	50	100	150	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	280	480	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	400	600	800	1000	V
Average Rectified Forward Current	I _{F(AV)}	4.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125				70				A
Maximum Forward Voltage @4.0A	V _F	0.875				1.25		1.85		V
Maximum Instantaneous Reverse Current	I _R	100								μA
Rated DC Voltage, T _J = 100 °C										
Rated DC Voltage, T _J = 25 °C		10								
Maximum Reverse Recovery Time (Note 1)	t _{rr}	25				50		75		ns
Typical Junction Capacitance (Note 2)	C _J	85						50		pF
Maximum Thermal Resistance, Junction-to-Case (Note 3)	R _{θJC}	50								°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{stg}	-55 to +150								°C

Note: 1.Reverse recovery test conditions I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A
 2.Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
 3.Both lead attached to heatsink 20 * 20 * 1t(mm) copper plate at lead length 5mm

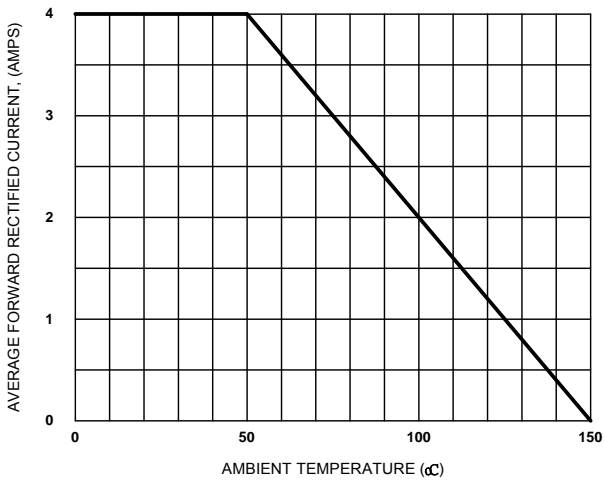


Figure 1. Forward Current Derating Curve

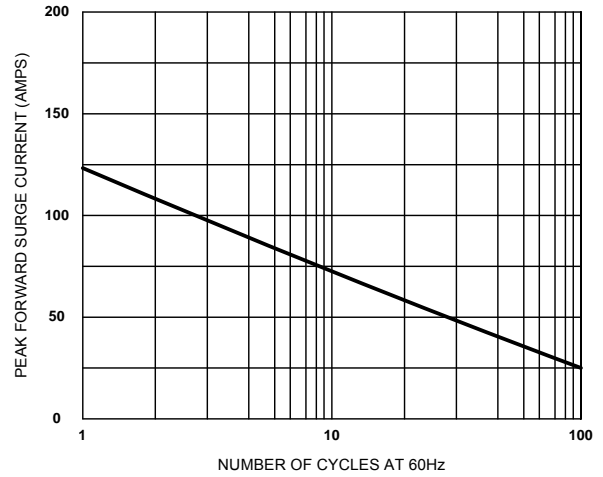


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

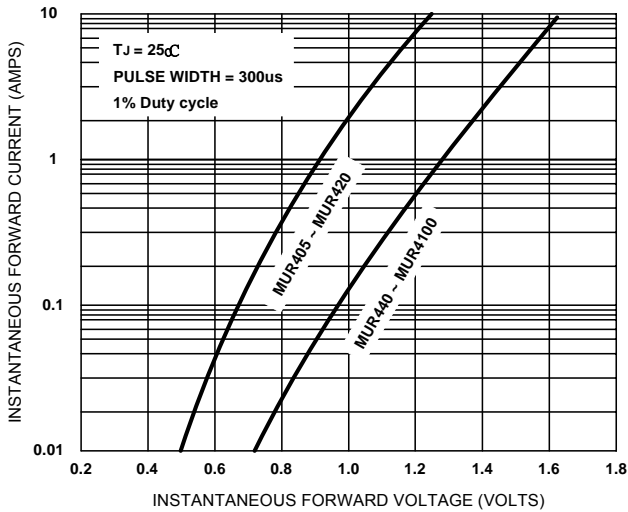


Figure 3. Typical Instantaneous Forward Characteristics

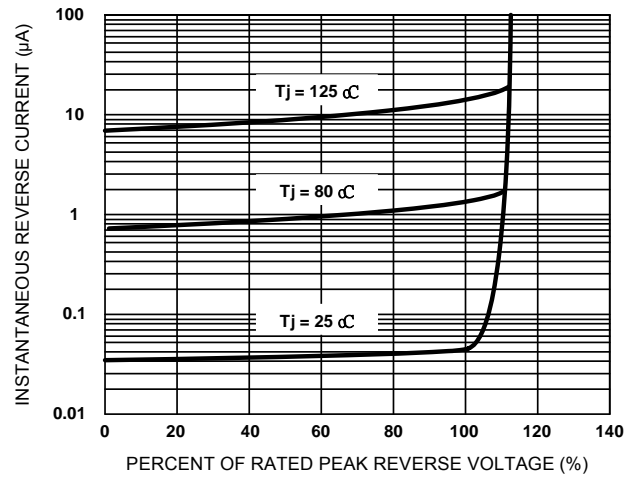


Figure 4. Typical Reverse Characteristics

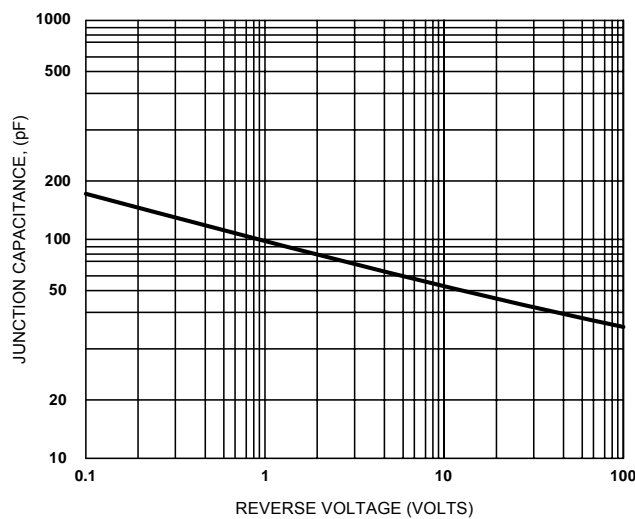


Figure 5. Typical Junction Capacitance