

# MUR160

**PRV : 600 Volts**  
**Io : 1.0 Ampere**

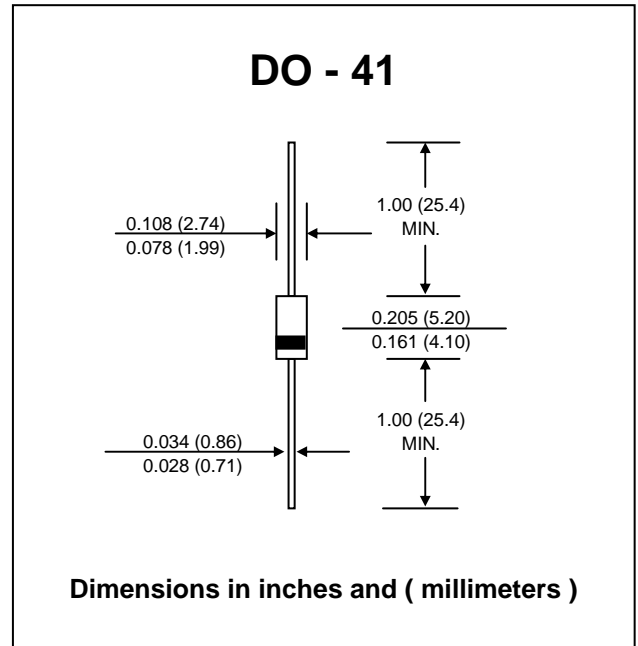
**FEATURES :**

- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

**MECHANICAL DATA :**

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram

## ULTRAFAST RECTIFIERS



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum Working Reverse Voltage	VRWM	600	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward Current , See Fig. 2	IF(AV)	1.0	A
Non-repetitive Peak Forward Surge Current	IFSM	35	A
Maximum Forward Voltage at IF = 1 Amp. (Note 1)	VF	1.50	V
Maximum Reverse Current at TJ = 25 °C	IR	5.0	μA
Rated DC Blocking Voltage TJ = 125 °C	IR(H)	150	μA
Maximum Reverse Recovery Time ( Note 2 )	Trr	50	ns
Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	TSTG	- 65 to + 175	°C

**Notes :**

- (1) Pulse Test : Pulse Width = 300 μs, Duty Cycle ≤ 2.0%
- (2) Reverse Recovery Test Conditions : IF = 0.5A, IR = 1A ; Irr = 0.25 A

## RATING AND CHARACTERISTIC CURVES ( MUR160 )

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

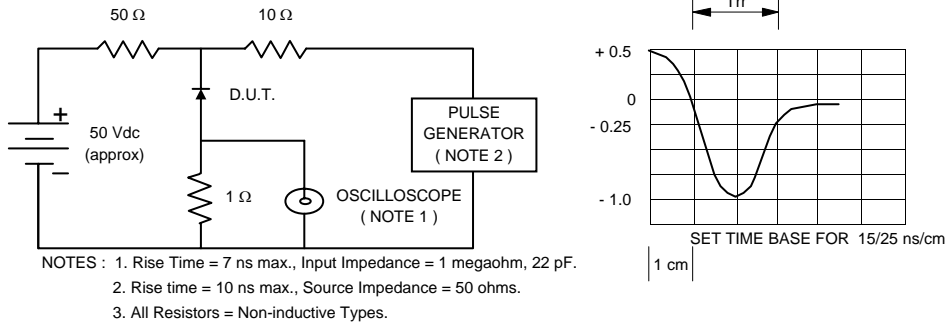


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

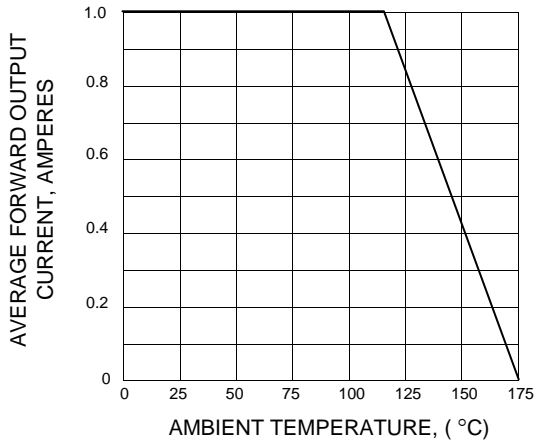


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

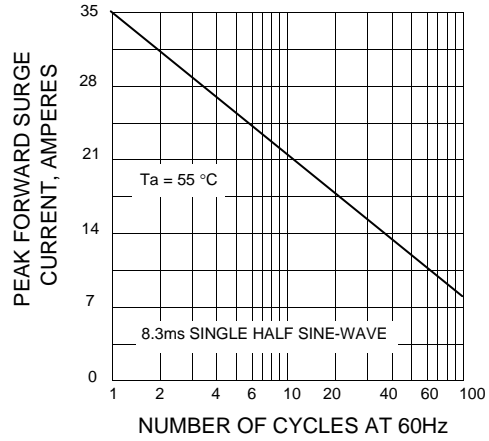


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

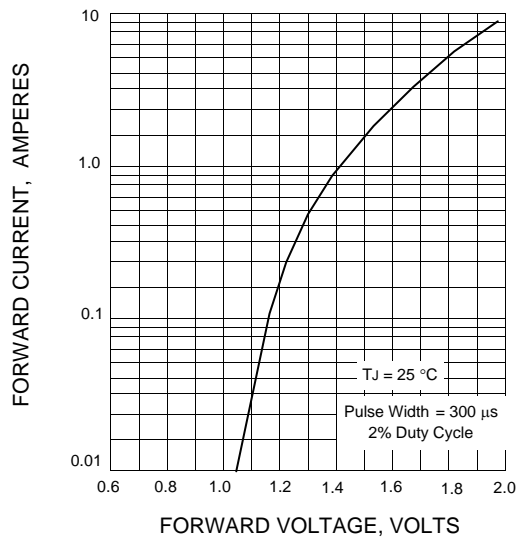


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

