

MUR1100E

PRV : 1000 Volts
Io : 1.0 Amperes

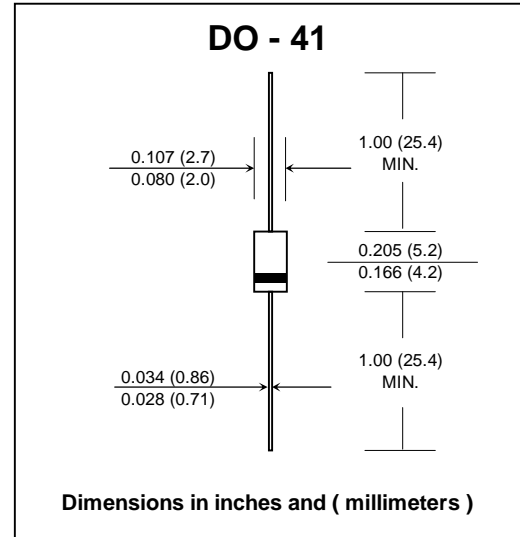
FEATURES :

- * Ultrafast 75 Nanosecond Recovery Time
- * High Temperature
- * Low Forward Voltage
- * Low Leakage Current
- * 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	1000	V
Maximum Working Reverse Voltage	VRWM	1000	V
Maximum DC Blocking Voltage	VDC	1000	V
Maximum Average Forward Current	IF(AV)	1.0 @ T _A = 95 °C	A
Maximum Non-repetitive Peak Forward Surge Current	IFSM	35	A
Maximum Instantaneous Forward Voltage at I _F = 1 Amp. (Note 1)	VF	1.75	V
Maximum Instantaneous Reverse Current at	IR	10 (T _J = 25 °C)	μA
Rated DC Blocking Voltage	IR(H)	600 (T _J = 100 °C)	μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	75	ns
Junction Temperature Range	T _J	- 65 to + 175	°C
Storage Temperature Range	T _{STG}	- 65 to + 175	°C

Notes :

- (1) Pulse Test : Pulse Width = 300 μs, Duty Cycle ≤ 2.0%
- (2) Reverse Recovery Test Conditions : I_F = 0.5A, I_R = 1A ; I_{rr} = 0.25 A

RATING AND CHARACTERISTIC CURVES (MUR1100E)

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

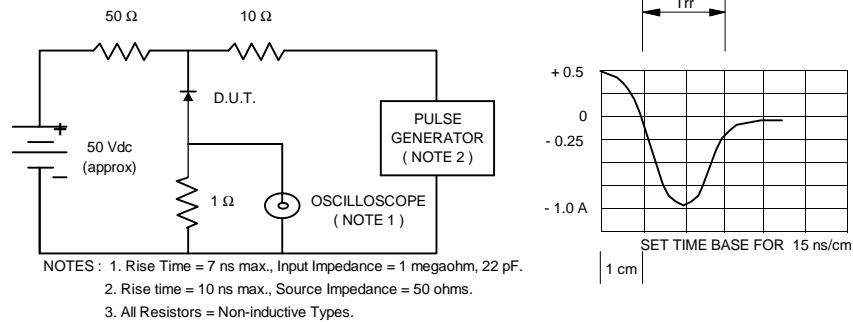


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

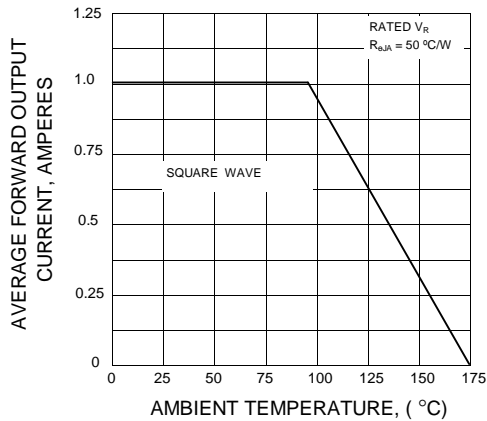


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

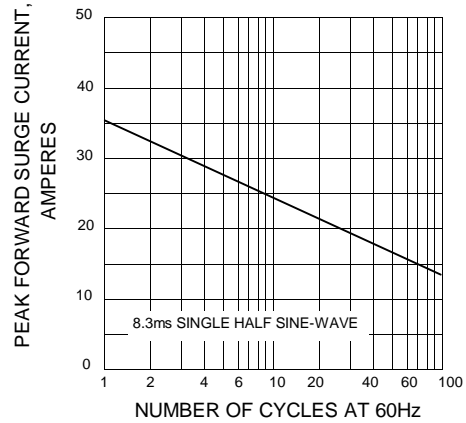


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

