

MUR120 -MUR160

PRV : 200 - 600 Volts
Io : 1.0 Ampere

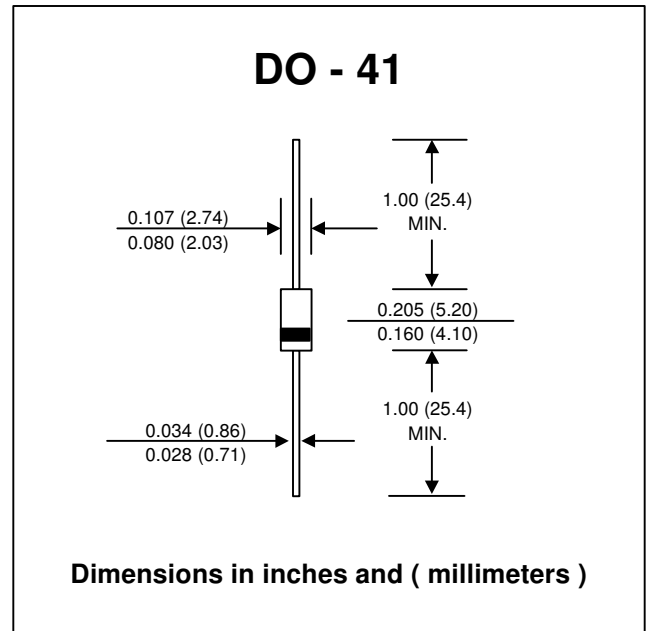
FEATURES :

- * High current capability
- * 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	MUR120	MUR140	MUR160	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	200	400	600	V
Maximum Working Reverse Voltage	VRWM	200	400	600	V
Maximum DC Blocking Voltage	VDC	200	400	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	0.875	1.25		V
Maximum Reverse Current at TJ = 25 °C	IR	2.0	5.0		μA
Rated DC Blocking Voltage TJ = 125 °C	IR(H)	50	150		μA
Maximum Reverse Recovery Time (Note 2)	Trr	25	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 (MUR120 - MUR160)

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

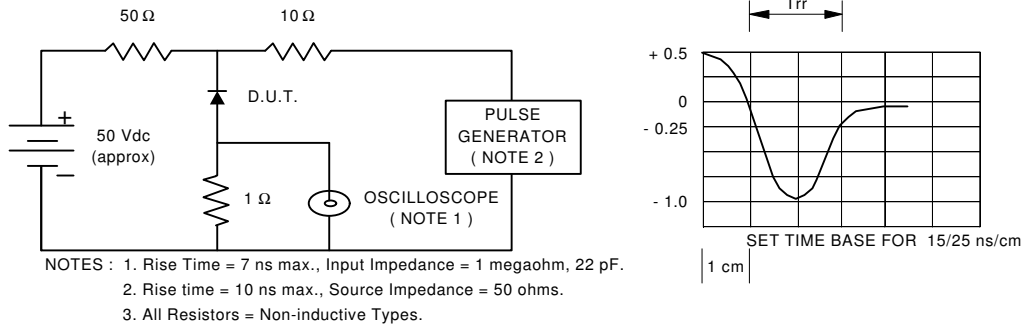


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

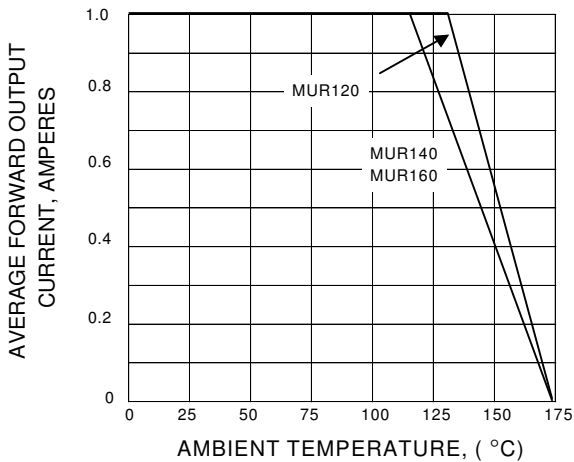


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

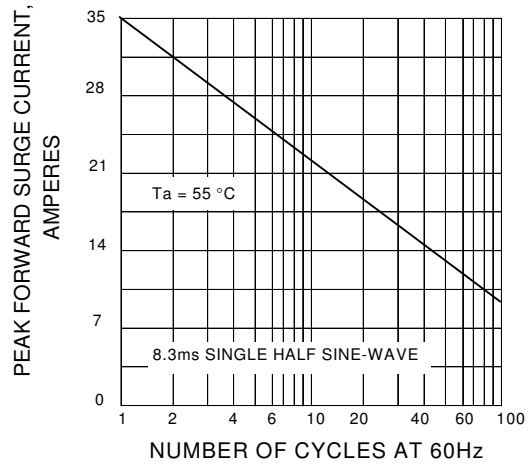


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

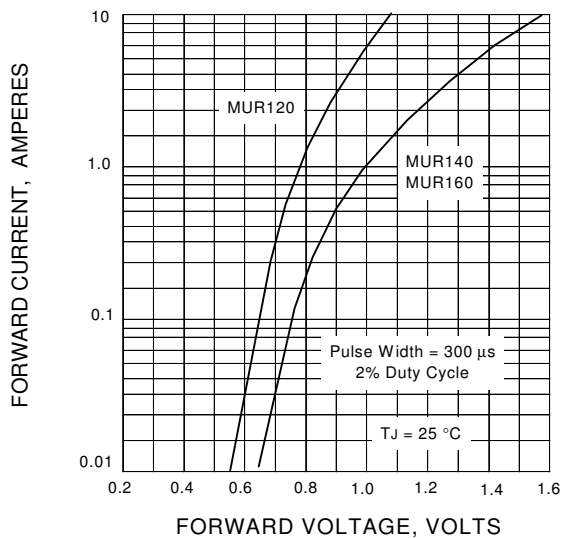


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

