



Features:

- Low Cost
- · Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Easily Cleaned With Alcohol, Isopropanol And Similar Solvents

Mechanical Data:

Case: JEDEC DO-41, molded plastic

Terminals: Axial lead, solderable per MIL-STD-202, Method 208

· Polarity: Colour band denotes cathode

Weight: 0.012oz, 0.34gMounting position: Any

Maximum Ratings and Electrical Characteristics:

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

Characteristics	Symbol	MUR160-T	Units
Maximum recurrent peak reverse voltage	Vrrm	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC blocking voltage	V DC	600	V
Maximum average forward rectified current 9.5mm lead length at T _A =75	I F(AV)	1	А
Peak forward surge current 8.3ms single half-sine-wave super imposed on rated load at T _J =125°C	Iгsм	35	А
Maximum instantaneous forward voltage at 1A	VF	1.25	V
Maximum reverse current at T _A =25°C at rated DC blocking voltage at T _A =100°C	lr	5 150	А
Maximum reverse recovery time (Note1)	trr	50	ns
Typical junction capacitance (Note2)	Сл	22	pF
Typical thermal resistance (Note3)	Reja	50	°C/W
Operating and Storage temperature range	Тл, Твтв	- 55 to +150	°C

Note

- (1) Measured with IF=0.5A, IR=1A, Irr=0.25A.
- (2) Measured at 1MHz and applied reverse voltage of 4.1V DC
- (3) Thermal resistance from junction to ambient

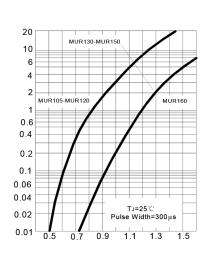
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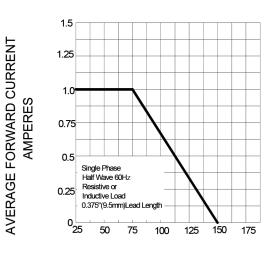
FIG.1 - TYPICAL FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT



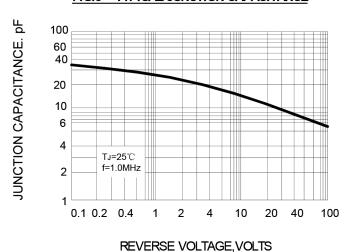
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.2 - FORWARD DRATING CURVE



NUMBER OF CYCLES AT 60Hz

FIG.3 - TYPICAL JUNCTION CAPACITANCE



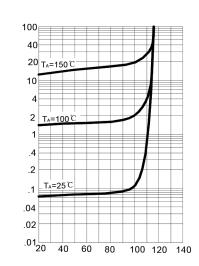
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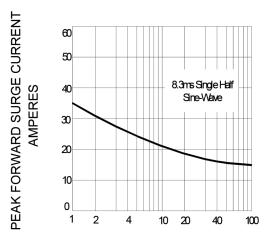
INSTANTANEOUS REVERSE LEAKAGE CURRENT MICRO AMPERES

FIG.4 - TYPICAL REVERSE CHARACTERISTICS



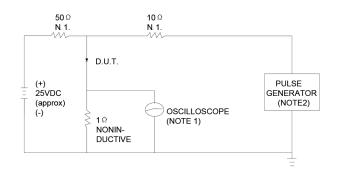
PERCENT OF RATED PEAK REVERSE VOLTAGE, %

FIG.5 - PEAK FORWARD SURGE CURRENT

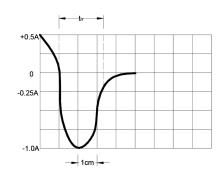


NUMBER OF CYCLES AT 60Hz

FIG.6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1.RISE TIME = 7ns MAX INPUT IMPEDANCE = $1M \Omega.22pF$. 2.RISE TIME = 10ns MAX SOURCE IMPEDANCE= 50Ω .

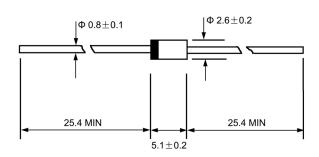


SET TIME BASE FOR 10/20 ns/cm



Dimensions:

DO - 41



Dimensions: Millimetres

Part Number Table

Description	Part Number	
Super Fast Rectifier	MUR160-T	

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