

MUR160

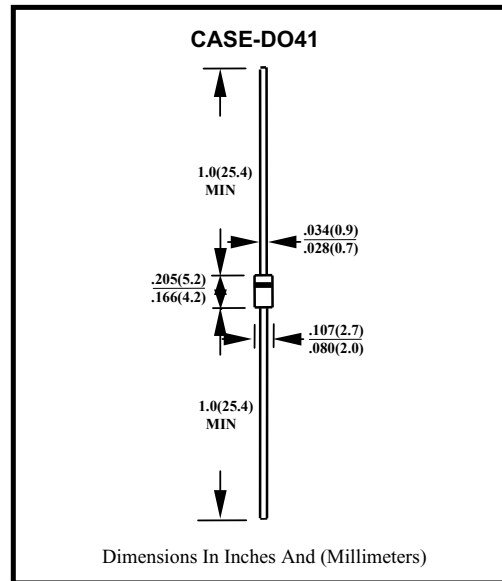
Voltage: 600 Volts**Current: 1.0 A**

Features

- Low power loss, high efficiency
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- High Speed Switching
- High Reliability
- High Current Surge
- Glass Passivated Chip Junction

Mechanical data

Case: GMolded Plastic
 Epoxy: GUI 94v-0 Rate Flame Retardant
 Lead: GMil-Std-202e Method 208c Guaranteed
 Mounting Position: GAny



Maximum Ratings and Electrical Characteristics

RATINGS	SYMBOL	MUR160	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	600	V
MAXIMUM RMS VOLTAGE	V_{RMS}	420	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	600	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH AT $T_A=55^{\circ}\text{C}$	I_O	1	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	35	A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	20	PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	R_{qja}	15	$^{\circ}\text{C/W}$
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150	$^{\circ}\text{C}$
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (A_T $T_A=25^{\circ}\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MUR160	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	1.25	V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5	mA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	250	mA
MAXIMUM REVERSE RECOVERY TIME (NOTE 3)	T_{RR}	50	nS

NOTE:

- MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE 0 F 4.0 VOLTS
- BOTH LEADS ATTACHED TO HEAT SINK 20×20×1(mm) COPPER PLATE AT LEAD LENGTH 5mm
- REVERSE RECOVERY TEST CONDITIONS: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

Rating and Characteristic Curves (MUR160)

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

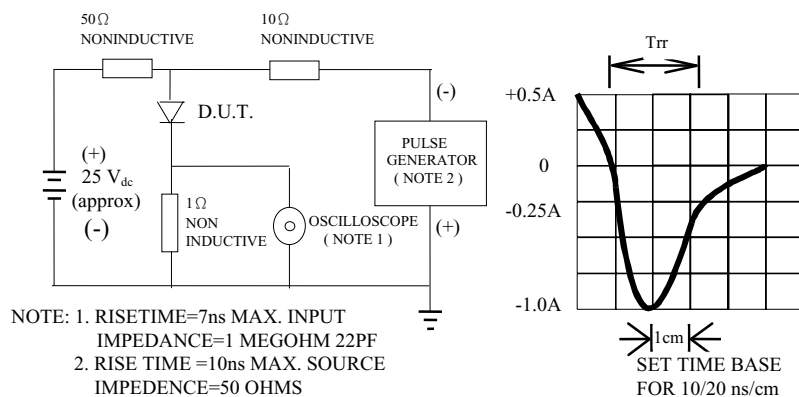


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

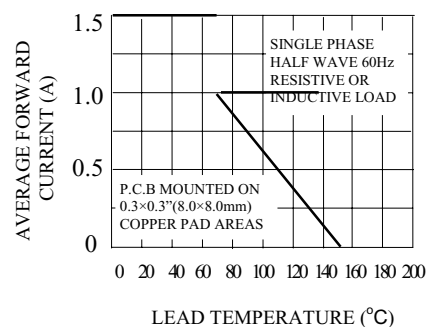


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

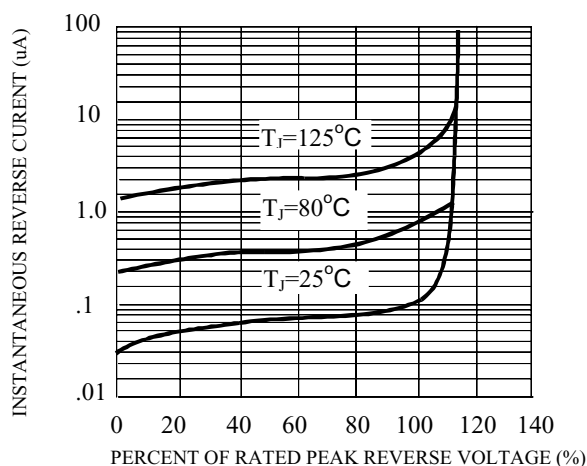


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

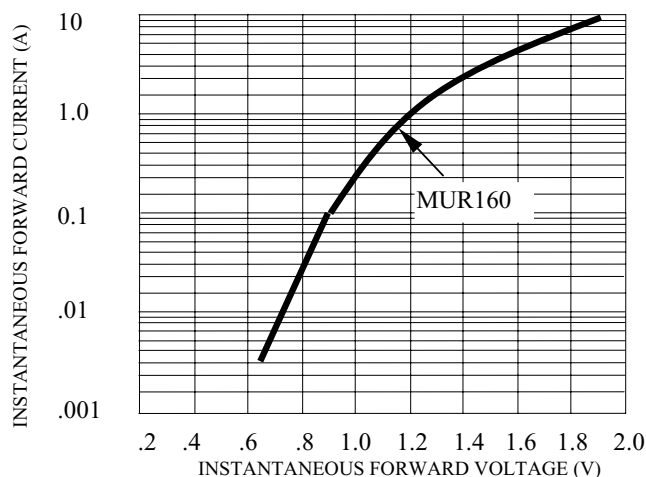


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

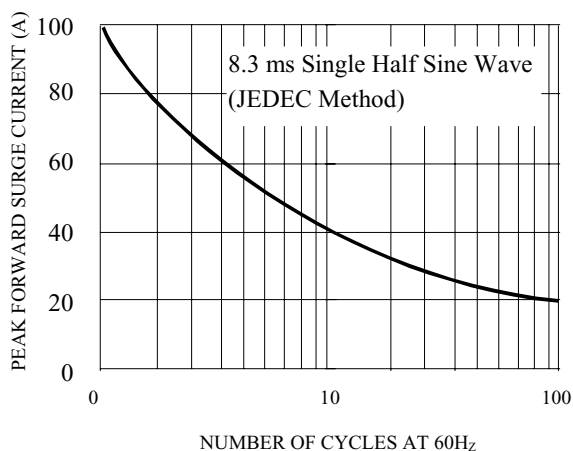


FIG. 6-TYPICAL JUNCTION CAPACITANCE

