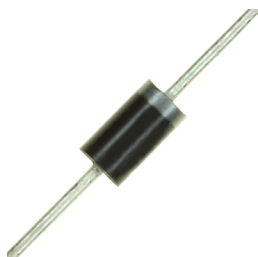


Ultra Fast Recovery Rectifier Diode

$V_{RRM} = 600$ Volts, 1A

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Features

- Glass Passivated (GPP)
- Ultra fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260°C, 40s
- High current capability
- Component in accordance to WEEE 2002/96/EC
- Case style: DO-204AL (DO-41) molded plastic

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	
Maximum DC Blocking Voltage	V_{DC}	600	
Maximum average forward rectified current 0.375" (9.5mm) lead length @ $T_A = 50^\circ\text{C}$	$I_{(AV)}$	1	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	35	A
Maximum instantaneous forward voltage at 1A	V_F	1.35	V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_R	5 50	μA
Maximum Reverse Recovery Time	T_{RR}	60	nS
Typical Junction Capacitance (Note 1)	C_J	20	pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	50	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-65 to +175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +175	$^\circ\text{C}$

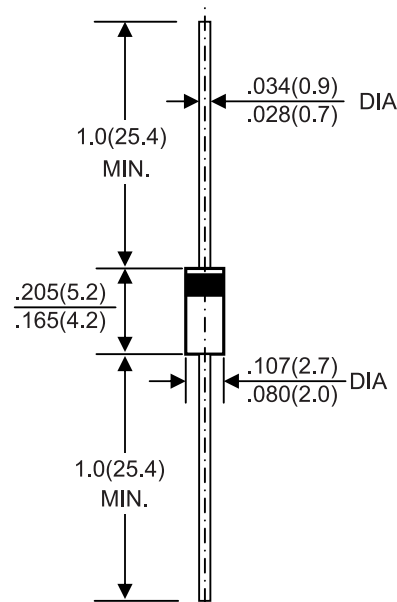
Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Thermal resistance junction to ambient
3. The typical data above is for reference only

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**RoHS
Compliant**

DO-204AL (DO-41)



Dimensions : Inches (Millimetres)

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Ultra Fast Recovery Rectifier Diode

$V_{RRM} = 600$ Volts, 1A

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Rating and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

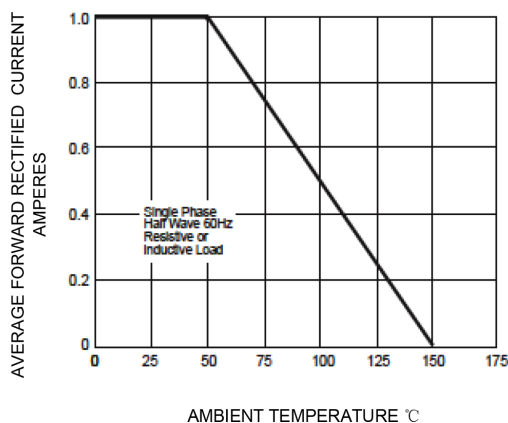


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

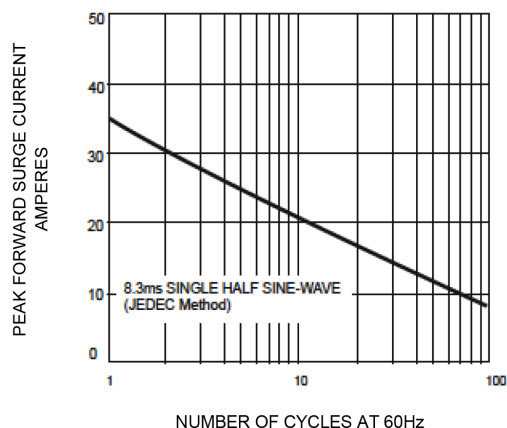


FIG.3-TYPIACL REVERSE CHARACTERISTICS

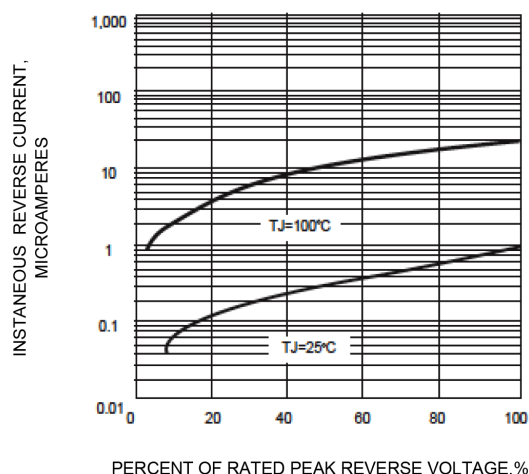
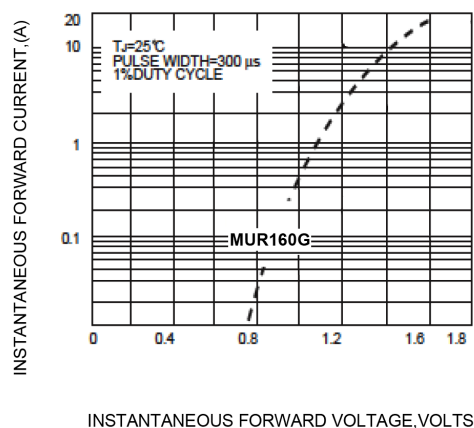


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Part Number Table

Description	Part Number
Rectifier Diode, Ultra Fast, 600V, 1A, DO-204AL (DO-41)	MUR160G

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