

MUR105G thru MUR1100G

Reverse Voltage 50 - 1000 Volts Forward Current - 1.0 Amperes

Features

- Ultra fast switching for high efficiency
- Low leakage current
- High forward surge capability
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

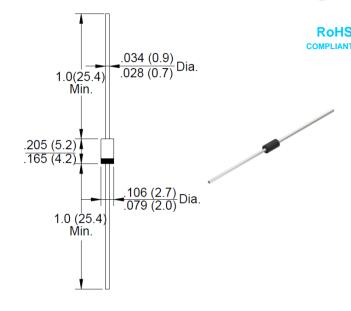
Ultar Fast Rectifiers

AEC-Q101 qualified

Mechanical Data

- Case: JEDEC DO-41 molded plastic body
- Terminals: Plated axial leads, solderable per MIL STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight:0.33 grams

DO-41



Dimensions in inches and (millimeters)

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	MUR 105G	MUR 110G	MUR 115G	MUR 120G	MUR 140G	MUR 160G	MUR 180G	MUR 1100G	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	105	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	400	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at TA=50℃	I(AV)	1.0								Α
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	35							А	
I ² t Rating for Fusing (t<8.3mS)	l ² t	5.08							A ² s	
Maximum instantaneous forward voltage at 1.0A	VF	0.97 1.35 1.7				.7	V			
Maximum DC Reverse Current @Ta=25°C at Rated DC Blocking Voltage @Ta=100°C	lr	5 50								μΑ
Maximum Reverse Recovery Time	Trr	45				60		75		nS
Typical Junction Capacitance (Note1)	CJ	20								pF
Typical thermal resistance(Note2)	Rеја	50							°C/W	
Operating Temperature Range	TJ	-65 to+175							$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	Тѕтс	-65 to+175								$^{\circ}$
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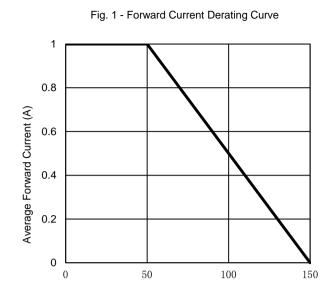
NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

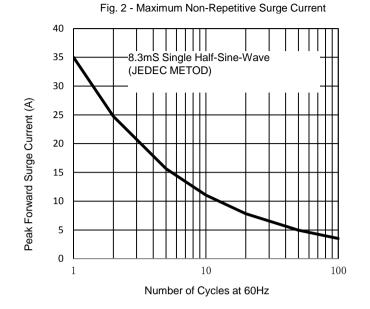
- 2. Thermal resistance junction to ambient
- 3. The typical data above is for reference only .

MUR1*G-A-00-A001

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Ambient Temperature (°C)

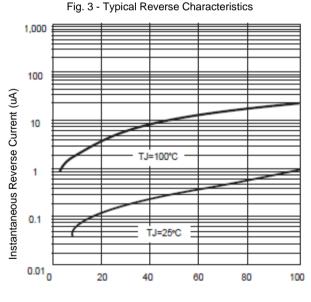
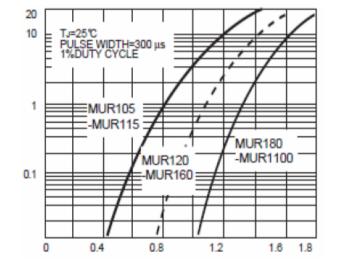


Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Current (A)

Percent of Rated Peak Reverse Voltage (%)

Instantaneous Forward Voltage (V)



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