

## FEATURES

- | Glass passivated junction chip
- | Low reverse leakage
- | High forward surge current capability



DO-201



Schematic Symbol

## MECHANICAL DATA

- | Case : Molded plastic body
- | Polarity : Polarity symbol marking on body
- | Mounting Position : Any

## APPROVALS

<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	Compliance with IEC61249-2-21:2003

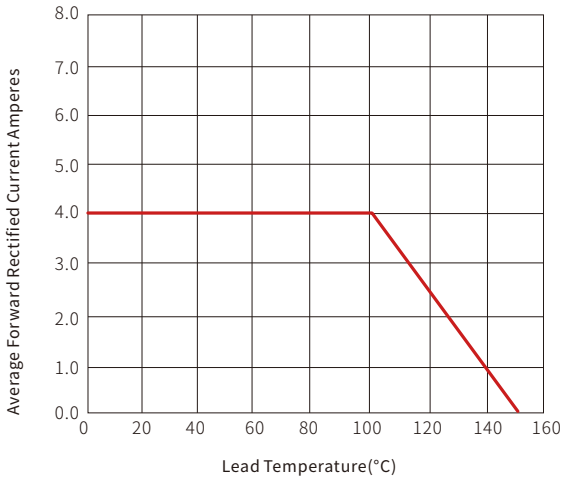
## MAXIMUM RATINGS AND CHARACTERISTICS (T<sub>A</sub>=25°C)

Parameter		Symbol	MUR410G	MUR420G	MUR440G	MUR460G	Unit
Marking			MUR410G	MUR420G	MUR440G	MUR460G	
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	100	200	400	600	V
Maximum RMS voltage		V <sub>RMS</sub>	70	140	280	420	
Maximum DC blocking voltage		V <sub>DC</sub>	100	200	400	600	
Maximum average forward rectified current at T <sub>L</sub> =100°C		I <sub>F(AV)</sub>	4.0				A
Surge peak forward current, 8.3ms single half sine-wave superimposed on rated load per diode		I <sub>FSM</sub>	120.0				
Maximum instantaneous forward voltage at 4.0A		V <sub>F</sub>	1.0		1.3		V
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	2.0				μA
	T <sub>A</sub> =125°C		200				
Maximum reverse recovery time (Note 1)		T <sub>rr</sub>	35		50		ns
Typical junction capacitance (Note 2)		C <sub>J</sub>	74.0				pF
Typical thermal resistance		R <sub>θJ-A</sub>	45.0				°C/W
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150				°C

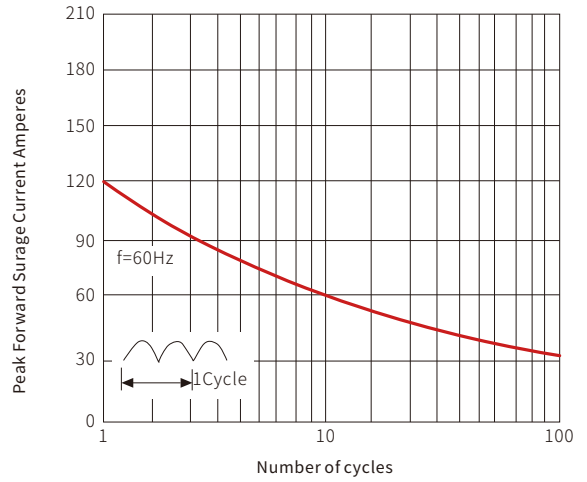
Note 1: Reverse recovery time test condition: I<sub>F</sub>=0.5A I<sub>R</sub>=1.0A I<sub>rr</sub>=0.25A  
 2: Measured at 1MHz and applied reverse voltage of 4.0V D.C

# CHARACTERISTIC CURVES

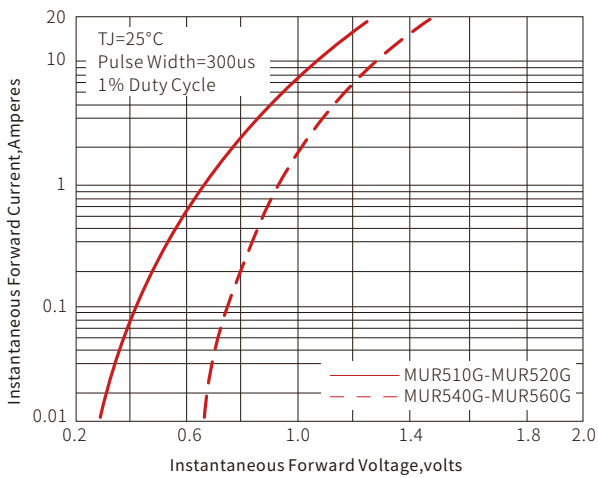
**Fig. 1- Derating Curve Output Rectified Current**



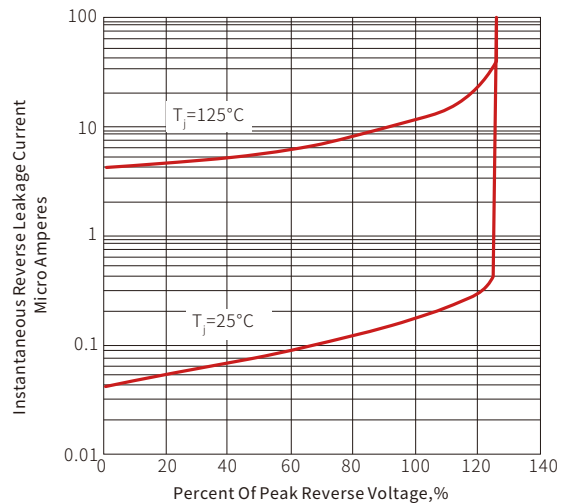
**Fig. 2- Maximum Non-Repetitive Peak Forward Surge Current Perleg**



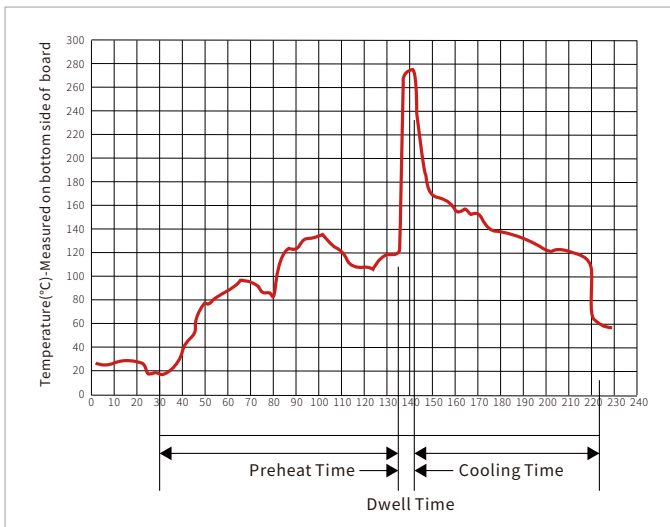
**Fig. 3- Typical Forward Voltage Characteristics**



**Fig. 4- Typical Reverse Leakage Characteristics**

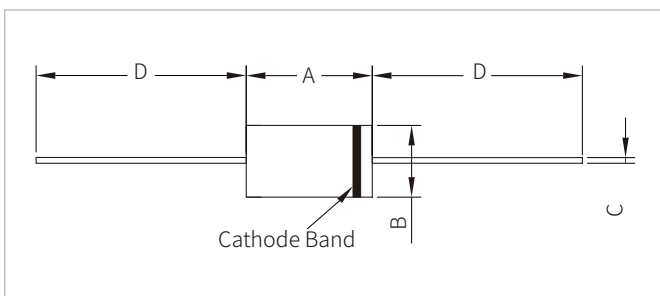


## WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

## DO-201 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	8.50	9.50	0.335	0.375
B	4.80	5.60	0.189	0.220
C	1.10	1.45	0.043	0.057
D	24.00	-	0.945	-

## ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
MUR410G-MUR460G	DO-201	1250pcs	Reel

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