



# MUR405EG thru MUR4100EG

## ULTRA FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts  
FORWARD CURRENT - **4.0** Amperes

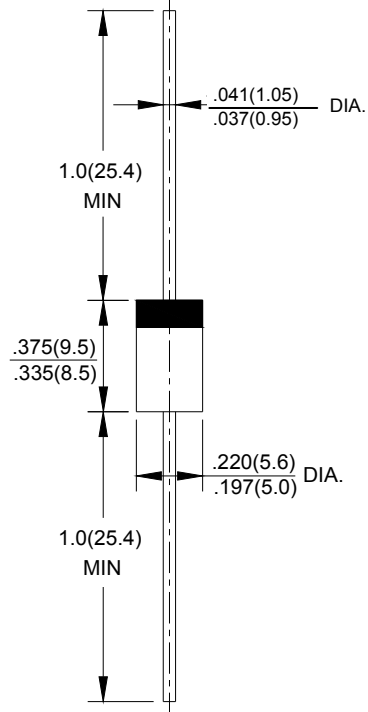
### FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

### FEATURES

- Case: JEDEC DO-201AE molded plastic
- Weight: 1.04 grams
- Polarity: Color band denotes cathode end
- Mounting Position: Any

### DO-201AE



Dimensions in inches and (millimeters)

## 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 current derate by 20%.

CHARACTERISTICS	SYMBOL	MUR 405EG	MUR 410EG	MUR 415EG	MUR 420EG	MUR 440EG	MUR 460EG	MUR 480EG	MUR 4100EG	UNIT
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	150	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	280	420	550	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =55°C	I <sub>(AV)</sub>	4.0								A
Peak forward surge current 8.3ms single half sinewave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150								A
Maximum instantaneous forward voltage at 4.0A	V <sub>F</sub>	1		1.28			1.85			V
Maximum DC reverse current @T <sub>J</sub> =25°C at rated DC blocking voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	10 150								μA
Maximum Reverse Recovery Time(Note 1)	T <sub>RR</sub>	45			50		75			
Operating junction capacitance	T <sub>J</sub>	-55 to + 150								°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150								°C

Note: Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>RR</sub>=0.25A

FIG. 1 – FORWARD CURRENT DERATING CURVE

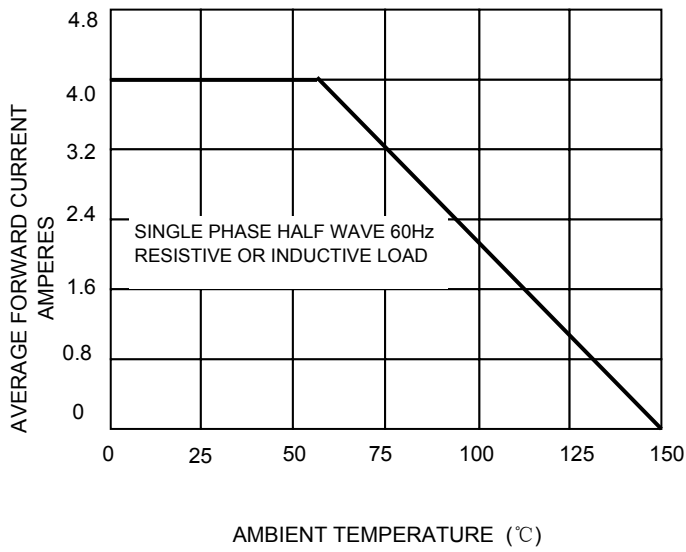


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

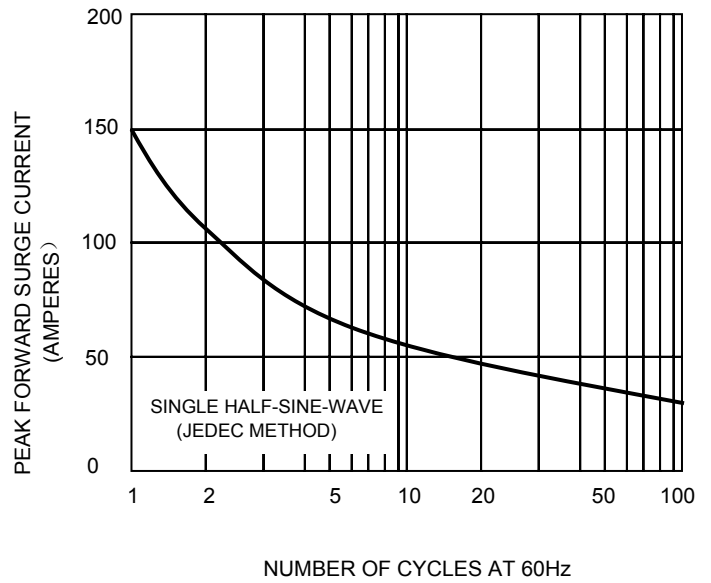


FIG.3-TYPICAL FORWARD CHARACTERISTICS

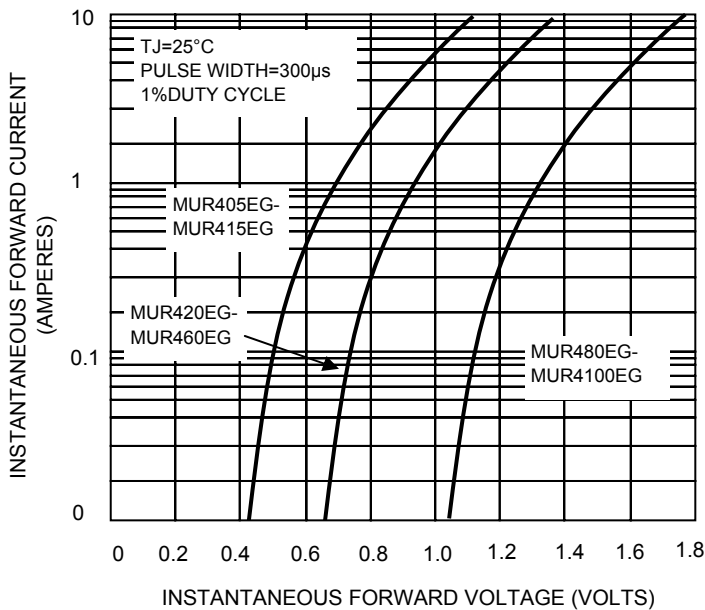
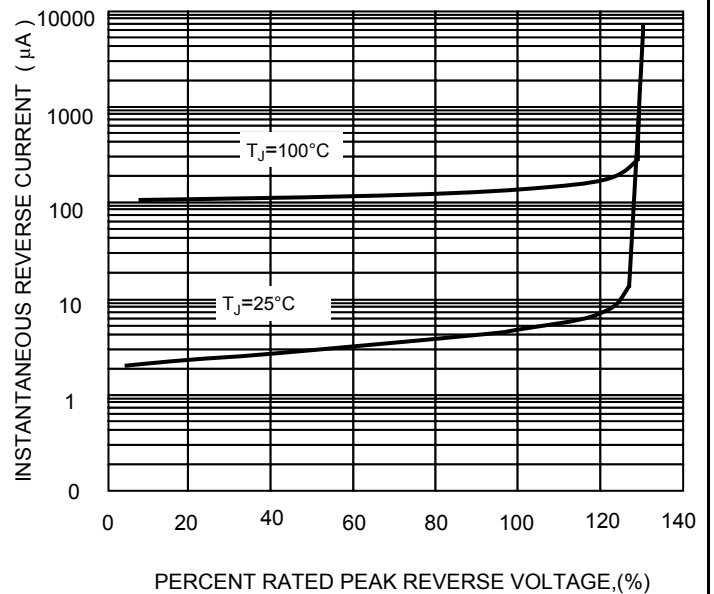


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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