

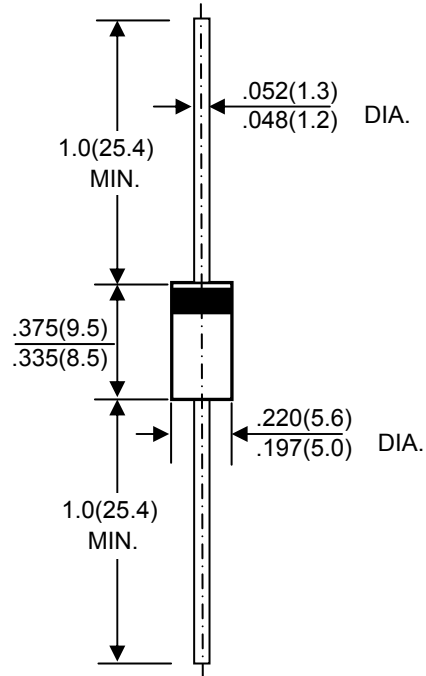
SUPER FAST RECOVERY RECTIFIER

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

FEATURES

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency

DO-27



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 405	MUR 410	MUR 415	MUR 420	MUR 440	MUR 460	MUR 480	MUR 4100	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	280	420	550	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @T _A =55 °C	I _(AV)	4.0								A	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	150								A	
Maximum Instantaneous Forward Voltage I _{FM} =4.0A@TA=25°C(Note 3)	V _F	1.0		1.35			1.85			V	
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I _R	10				50					µA
Maximum Reverse Recovery Time(Note 1)	T _{RR}	45			60			70		nS	
Typical Junction Capacitance (Note2)	C _J	80						50			pF
Typical Thermal Resistance	R _{θJA}	20								°C/W	
Operating Temperature Range	T _J	-55 to +150								°C	
Storage Temperature Range	T _{STG}	-55 to +150								°C	

NOTES: 1.Measured with I_F=0.5A, I_R=1A , I_{RR}=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Pulse test:Pulse width 300 µsec,Duty cycle 1%

4.The typical data above is for reference only(典型值仅供参考).

MUR4*-A-00-00

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FIG. 1 – FORWARD CURRENT DERATING CURVE

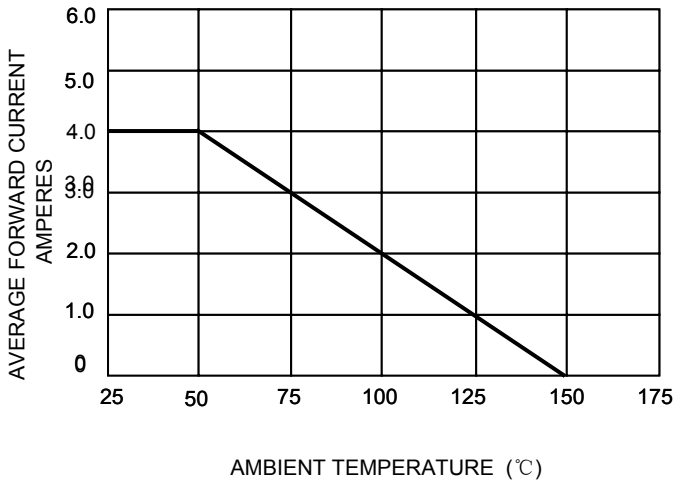


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

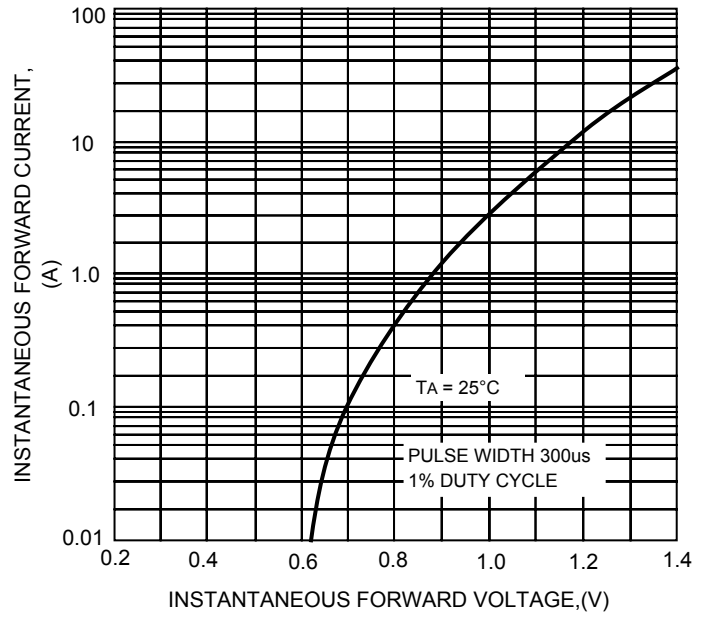
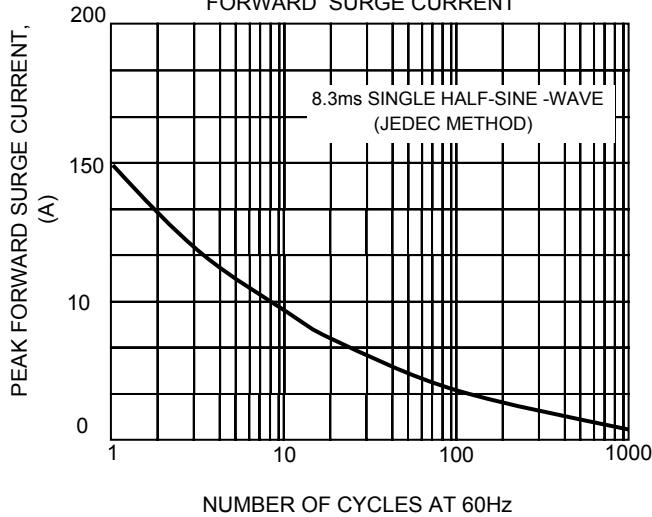


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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

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