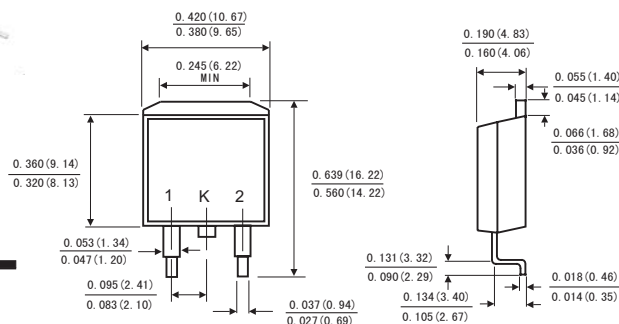


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU



TO-263 D2PAK



MECHANICAL DATA

- Case: JEDEC TO-263 molded plastic body
- Terminals: Solderable per MIL-STD-202,method 208
- Polarity: As marked
- Mounting Position: Any

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

	Symbols	MUR540D2	Units
Maximum repetitive peak reverse voltage	V_{RRM}	400	Volts
Maximum RMS voltage	V_{RMS}	280	Volts
Maximum DC blocking voltage	V_{DC}	400	Volts
Maximum average forward rectified current(see Fig.1)	$I(AV)$	5.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	75	Amps
Maximum instantaneous forward voltage at 5.0 A(Note 1)	V_F	1.25	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25^{\circ}C$	5	uA
	$T_a=125^{\circ}C$	500	
Maximum Reverse Recovery Time (Note 2)	T_{rr}	35	ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	2.5	°C/W
Operating junction temperature range	T_J	-55 to+150	°C
Storage temperature range	T_{STG}	-55 to+150	°C

- Notes: 1. Pulse test: 300μs pulse width,1% duty cycle
2. Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$
3. Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES MUR540D2

FIG.1-FORWARD CURRENT DERATING CURVE

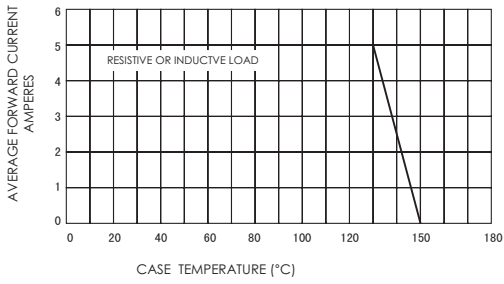


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

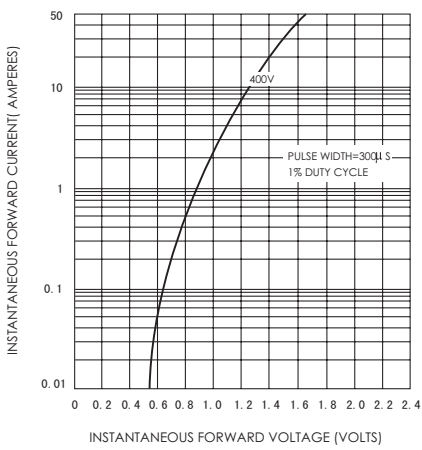


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

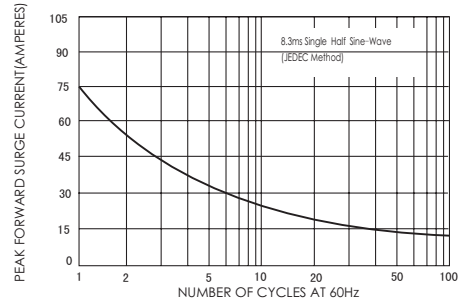


FIG.4-TYPICAL REVERSE CHARACTERISTICS

