WEE Technology Company Limited

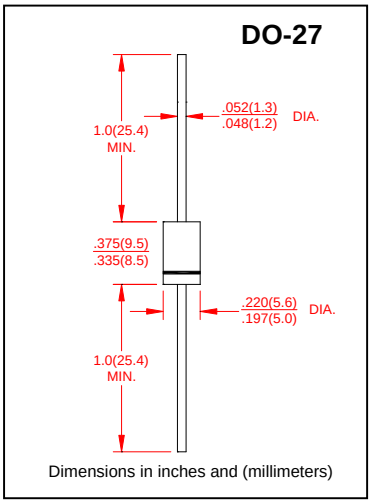
Ultra-Fast Recovery Rectifiers

MUR440 THRU MUR460

VOLTAGE RANGE 400 to 600 Volts
CURRENT 4.0 Ampere

FEATURES

- Low forward voltage drop
- High current capability
- Low power loss, high efficiency
- High reliability
- High surge current capacity
- High temperature soldering guaranteed



MECHANICAL DATA

- Case: Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.042ounce, 1.19 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	MUR440	MUR460	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	400	600	Volts
Maximum RMS Voltage		V_{RMS}	280	420	Volts
Maximum DC Blocking Voltage		V_{DC}	400	600	Volts
Maximum Average Forward Rectified Current		$I_{F(AV)}$	4.0		Amps
Peak Forward Surge Current,8.3mS single half sine- wave superimposed on rated load (JEDEC method)		I_{FSM}	70		Amps
Maximum Instantaneous Forward Voltage at 4.0A(NOTE1)		V_F	1.28		Volts
Maximum DC Reverse Current at rated DC blocking Voltage at	T_A = 25℃	I_R	10		μA
	T_A = 150℃		250		
Maximum Reverse Recovery Time (I_F= 0.5A, I_R= 1.0A, I_{RR}=0.25A)		t_{rr}	50		nS
Typical Junction Capacitance (NOTE2)		C_J	65		pF
Typical Thermal Resistance (NOTE3)		$R_{\theta JA}$	28		℃/W
Operating Junction Temperature Range		T_J	(-55 to +150)		℃
Storage Temperature Range		T_{STG}	(-55 to +150)		℃

NOTE1.Pulse test: t_P=300μS，duty cycle≤2%.
NOTE2.Measured at 1.0MHz and applied reverse voltage of 4.0V
NOTE3.Thermal Resistance from Junction to Ambient with 1/2 " Lead length on P.C.Board with 1.5."×1.5 "copper pads.

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CURRENT	**4.0 Ampere**

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

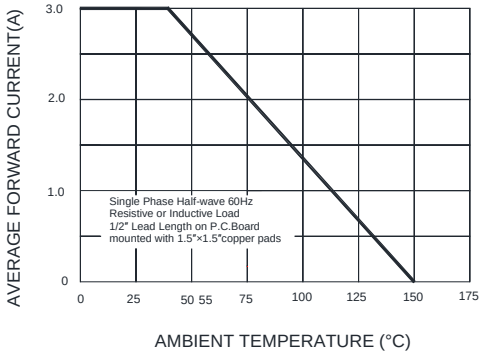


FIG.4-TYPICAL REVERSE CHARACTERISTICS

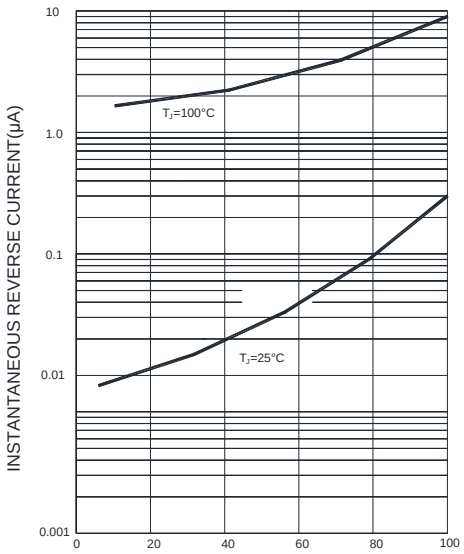


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

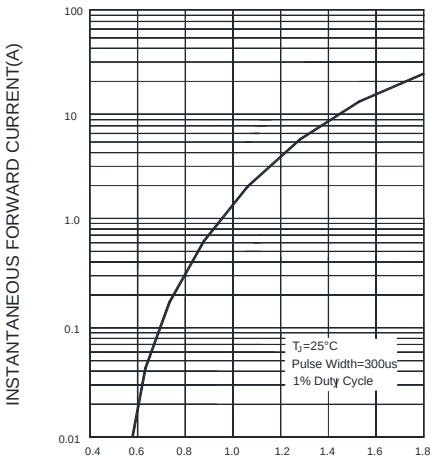
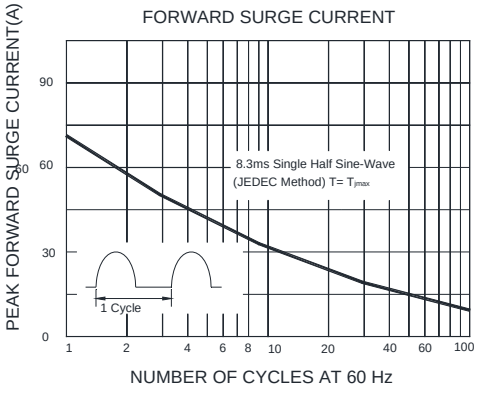


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.