

MURF810~MURF860

ULTRAFAST RECOVERY RECTIFIERS

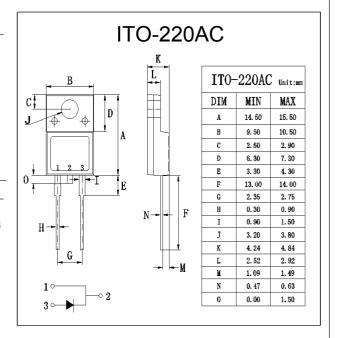
VOLTAGE	100 to 600 Volts
CURRENT	8 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability.
- · High surge capability
- · Ultra fast recovery time, high voltage.
- · Lead free in comply with EU RoHS.

MECHANICAL DATA

- · Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	MURF 810	MURF 820	MURF 830	MURF 840	MURF 850	MURF 860	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	300	400	500	600	V
Maximum RMS Voltage	V _{RMS}	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current at T _c =100°C	I _{F(AV)}	8						Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	90						А
Maximum Forward Voltage at 8A	V _F	1 1.3			1.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J =25°C T_J =125°C	l _R	10 500						μА
Maximum Thermal Resistance (Note 2)	R _{eJC}	5					°C / W	
Typical Junction Capacitance	C _J	80				50		pF
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35					ns	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150						°C

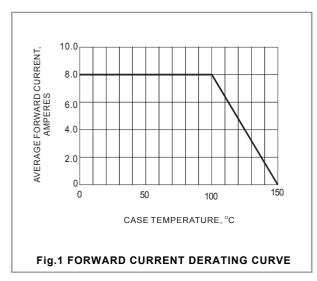
NOTES:

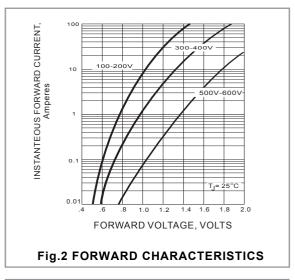
- 1. Reverse Rcovery Test Conditions: I_F =0.5A, I_R =1A, I_r =0.25A.
- 2. Thermal resistance from Junction to ambient and from junction to lead 0.375" (9.5 mm) P.C.B mounte

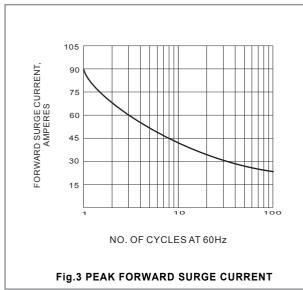


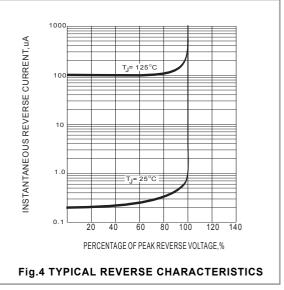
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RATING AND CHARACTERISTIC CURVES









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