

# MURF4060CT

## 40.0 A Switchmode Power Rectifiers

### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* Low Power Loss, High Efficiency

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end

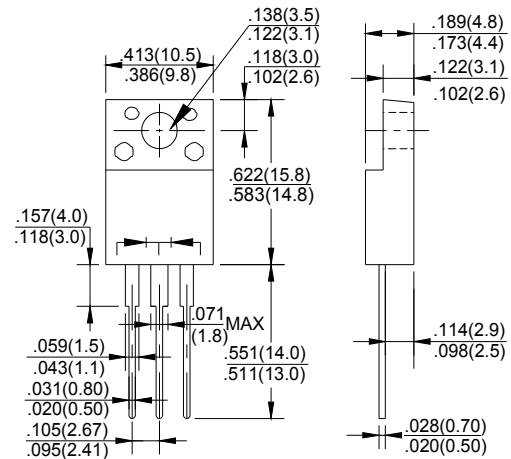
### VOLTAGE RANGE

600 Volts

### CURRENT

40.0 Ampere

### ITO-220AB



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

- \* Rating 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%

	Symbols	MURF4060CT	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	Volts
Maximum RMS voltage	$V_{RMS}$	420	Volts
Maximum DC blocking voltage	$V_{DC}$	600	Volts
Maximum average forward rectified current (see Fig.1)	Per leg	20.0	Amps
	Total device	40.0	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200	Amps
Maximum instantaneous forward voltage at 20.0 A per leg (Note 1)	$V_F$	1.75	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	$I_R$	$T_A = 25^\circ C$	5
		$T_A = 125^\circ C$	250
Maximum Reverse Recovery Time (Note 2)	$T_{rr}$	40	ns
Operating junction temperature range	$T_J$	-55 to +150	°C
Storage temperature range	$T_{STG}$	-55 to +150	°C

- Notes:** 1. Pulse test: 300  $\mu s$  pulse width, 1% duty cycle  
 2. Reverse recovery test conditions  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

## RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

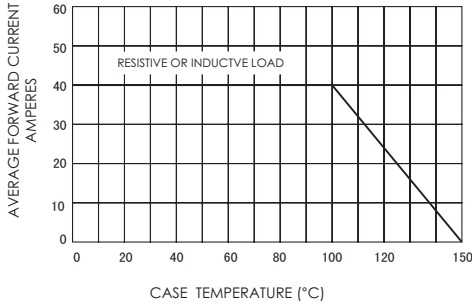


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

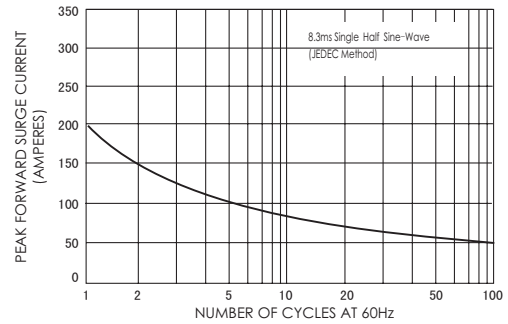


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

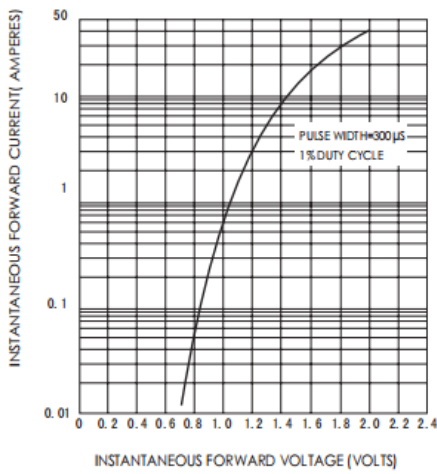
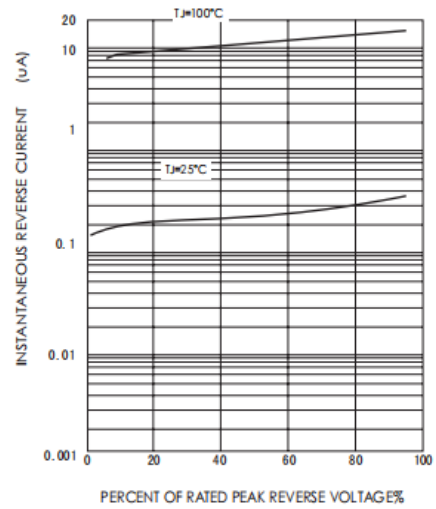


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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