

MUR3005CT - MUR3060CT

REVERSE VOLTAGE - 50 to 600 V FORWARD CURRENT - 30 A

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Glass passivated chip junctions
- Low power loss
- Low forward voltage, high current capability
- High surge current capability
- Ultra fast recovery times for high efficiency
- High temperature soldering guaranteed : 260 °C/10 seconds at terminals

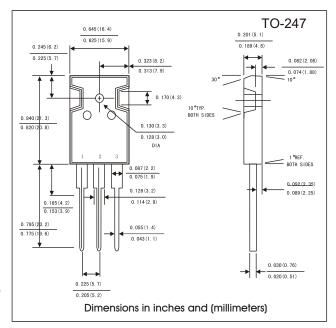
MECHANICAL DATA

■ Case: JEDEC TO-247 molded plastic

■ Terminals: Lead solderable per MIL-STD-750 , Method 2026

■ Polarity: As marked

• Weight: 5.6 grams (Approximately)



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%.

MAXIMUM RATINGES (At $T_A = 25$ °C unless otherwise noted)

RATINGS	SYMBOL	MUR3 005CT		MUR3 015CT	MUR3 020CT		MUR3 040CT	MUR3 050CT	MUR3 060CT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current	Ю	30.0								Amps
Peak Forward Surge Current 8.3 ms single half sine- wave superimposed on rated load (JEDEC method)	IFSM	300							Amps	
Typical Junction capacitance per leg (NOTE 1)	CJ	200 140				pF				
Typical thermal resistance (NOTE 2)	$R_{ heta}$ JC	1.0								°C/W
Operating and Storage Temperature Range	TJ,TSTG	-65 to +175							°C	

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ELECTRICAL CHARACTERISTICS (At $T_A = 25$ 0 C unless otherwise noted)

CHARACTERISTICS		SYMBOL	MUR 3005 CT	MUR 3010 CT	MUR 3015 CT	MUR 3020 CT	MUR 3030 CT	MUR 3040 CT	MUR 3050 CT	MUR 3060 CT	UNITS
Maximum Instantaneous Forward Voltage at 15.0 A DC		VF	0.975			1.30		1.50		Volts	
Maximum DC reverse current at rated DC blocking voltage per leg	TC = 25 °C	IR 10.0							uAmps		
	TC = 100 °C		500								
Maximum reverse recovery time (NOTE 3) per leg		trr	35 50					nS			

NOTES1. Measured at 1.0 MHZ and applied reverse voltage of 4.0 Volts

- 2. Thermal resistance from junction to case per leg mounted on heatsink
- 3. Reverse recovery test conditions : IF = 0.5 A, Ir = -1.0 A, Irr = -0.25 A.
- 4.Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

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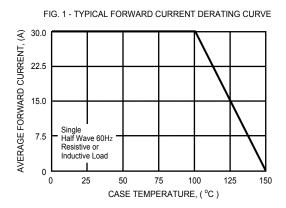
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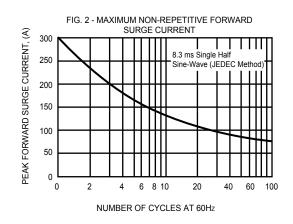


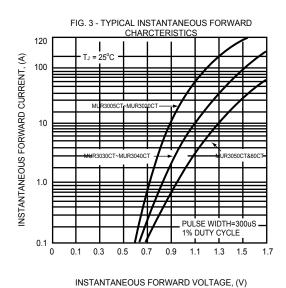
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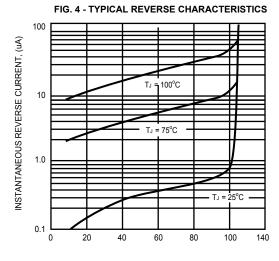
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RATING AND CHRACTERISTIC CURVES MUR3005CT - MUR3060CT

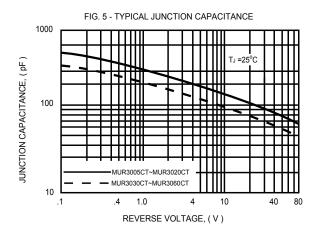








PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)



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