

MURF1020CT

Super Fast Rectifiers

Electrical characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=8A, TA=25°C	VF	0.92	0.98	V
Maximum reverse current Tj=25°C	IR	5		µA
at working peak reverse voltage Tj=150°C		250		µA
Reverse Recovery Time IF=0.5A, IR=1A, Irr=0.25A	Trr	25		ns

Thermal characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Typical thermal resistance	Symbol	MURF1020CT	°C/W
	Rthja	3.0	

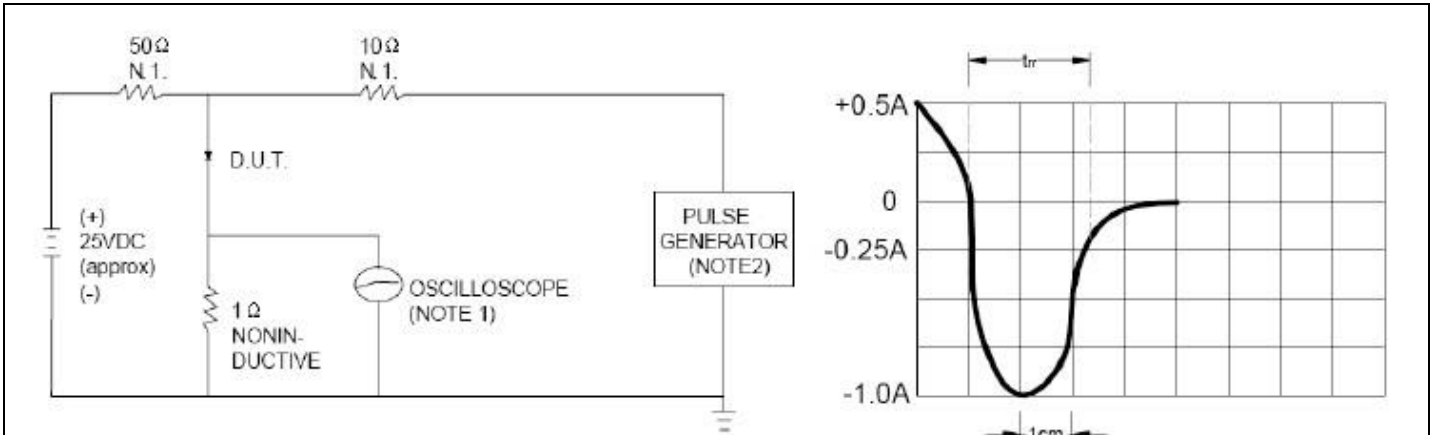
Notes:

- (1) Pulse test: 300 µs pulse width, 1 % duty cycle
- (2) Pulse test: Pulse width ≤ 40 ms
- (3) Cj Measured at 1.0MHz and reverse voltage of 4.0V DC

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■ TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



NOTES:

- 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1M . 22pF. SET TIME BASE FOR 10/20 ns/cm
- 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

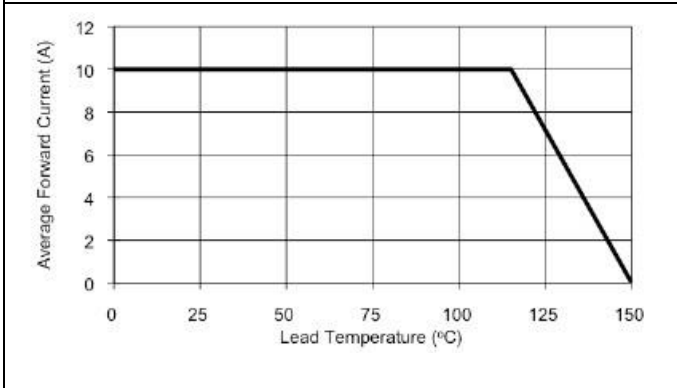


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

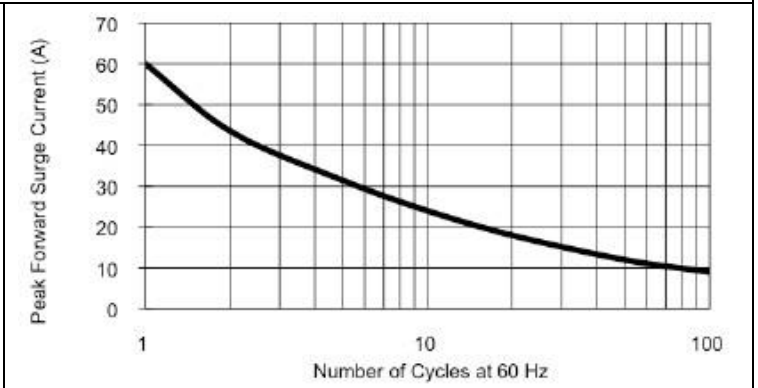


FIG.3- MAXIMUM FORWARD SURGE CURVE

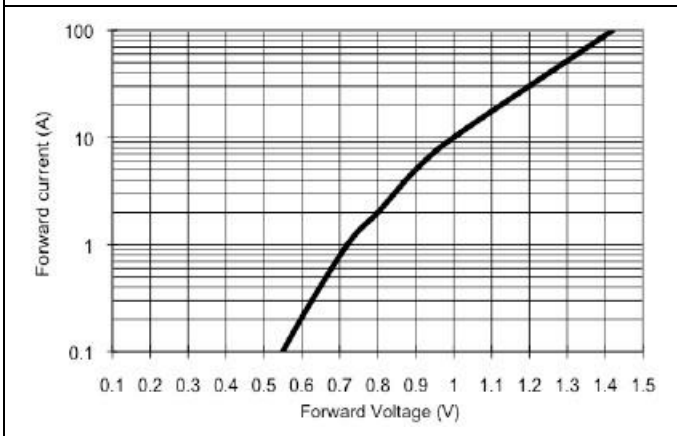


FIG.4-TYPICAL FORWARD CHARACTERISTICS

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