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SPC-F005.DWG

REVISIONS

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
			VEE	10-08-10	JAG	14-08-10	XXX	25-08-10

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398



RoHS
Compliant

Features:

1. Flammability: UL94V-0 utilizing flame retardant epoxy molding compound
2. Void-free plastic in DO-201AD package
3. 3.0 ampere operation at $T_c = 55^\circ\text{C}$ with no thermal runaway.
4. Exceeds environmental standards of MIL-S-19500/228

Mechanical Data:

1. Case: Molded Plastic; DO-201AD
2. Terminals: Axial leads, solderable per MIL-STD-202 method 208
3. Polarity: Band denotes cathode
4. Mounting Position: Any
5. Weight: 0.04 ounce, 1.1 gram

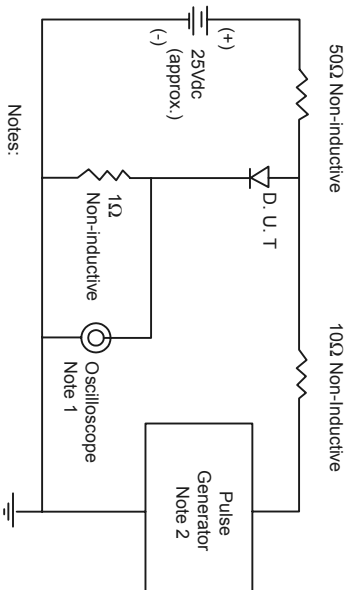
Maximum Ratings and Electrical Characteristics:

(Rating at 25°C ambient temperature unless otherwise specified Resistive or inductive load, 60Hz)

1. Peak Reverse Voltage, Repetitive: V_{rrm} : 800V
2. Maximum RMS Voltage: 560 V
3. DC Blocking Voltage: VR: 800V
4. Average Forward Current, I_A at $T_c = 55^\circ\text{C}$
3.8" lead length, 60 Hz resistive or inductive load: 3.0 A
5. Peak Forward Surge Current I_{FSM} (surge) 8.3msec single half sine-wave superimposed on rated load (JEDEC method) 150 A
6. Maximum Forward Voltage V_F at 3.0A, 25°C : 1.70 V
7. Maximum Reverse Current:
at Rated $T_c = 25^\circ\text{C}$: 10.0 μA
at Reverse Voltage $T_c = 100^\circ\text{C}$: 500 μA
8. Typical Junction Capacitance (Note 1) Cj: 50.0 pF
9. Typical Junction Resistance (Note 2) R θ J-A: 20.0°C/W
10. Reverse Recovery Time ($I_F = 0.5A$, $I_R = 1A$, $t_r = 0.25A$): 75nS
11. Operating and Storage Temperature Range: -55°C to $+150^\circ\text{C}$

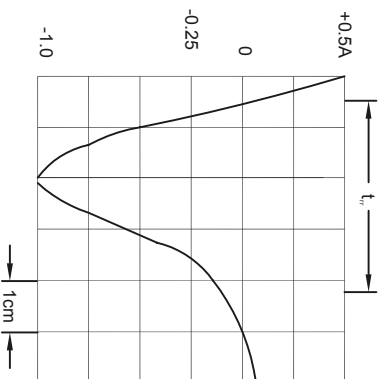
Notes:

1. Measured at 1 MHz and applied reverses voltage of 4.0 VDC
2. Thermal resistance from junction to ambient and from junction to lead length 0.375" (9.5mm) P.C Board mounted.

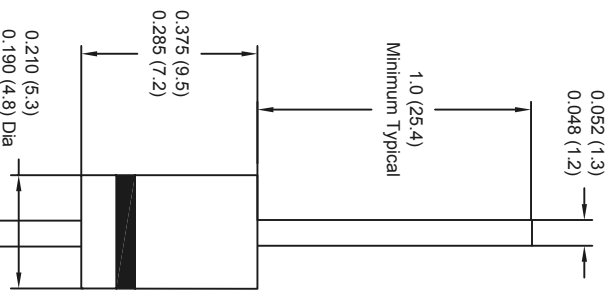


Notes:

1. Rise Time = 7ns max.
Input Impedance = 1 Megohm, 22pF
2. Rise Time = 10ns max.
Source Impedance = 50 Ohms.



Set Time Base for 50ns/cm



Dimensions : Inches (mm)

TOLERANCES:

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VEE	10-08-10
CHECKED BY:	DATE:
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XXX	25-08-10

DRAWING TITLE:

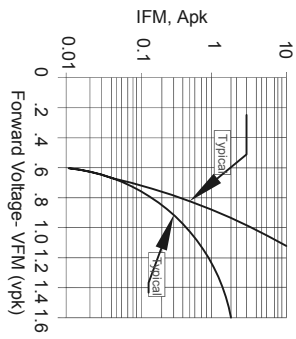
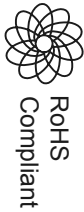
UL Trafast Switching Rectifier, 3.0 Ampere

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	XXX	17C7947	A
SCALE:	NTS	U.O.M.: Millimeters	SHEET: 1 OF 1

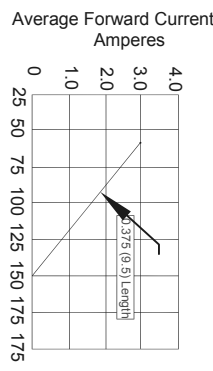
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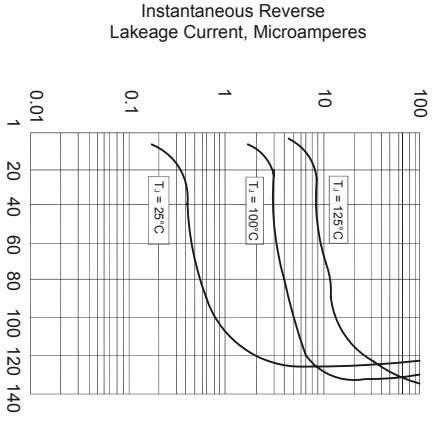
REVISIONS		DCP NO.	SPC-F005	* Effective:	7/8/02	* DCP No.:	1398	
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
			VEE	10-08-10	JAG	14-08-10	XXX	25-08-10



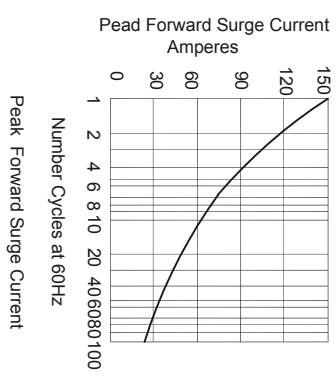
Forward Current Derating Curve



Forward Current Derating Curve



Typical Reverse Leakage Characteristics



Peak Forward Surge Current

Part Number Table

Description	Part Number
UL Trafast Switching Rectifier, 3.0 Ampere	UF308-RH

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JAG	14-08-10
APPROVED BY:	DATE:
XXX	25-08-10

DRAWING TITLE:		ELECTRONIC FILE	
UL Trafast Switching Rectifier, 3.0 Ampere		17C7944	
SIZE	DWG. NO.	REV	
A	XXX	A	
SCALE:	NTS	SHEET:	1 OF 1
U.O.M.: Millimeters			

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