

multicomp

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SPC-F005.DWG

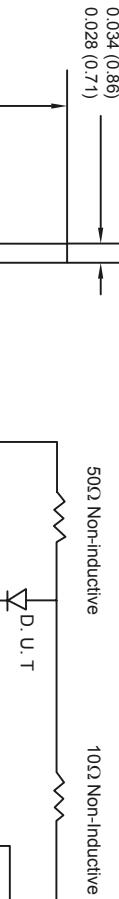
RoHS
Compliant

REVSIONS

DOC. NO. SPC-F005

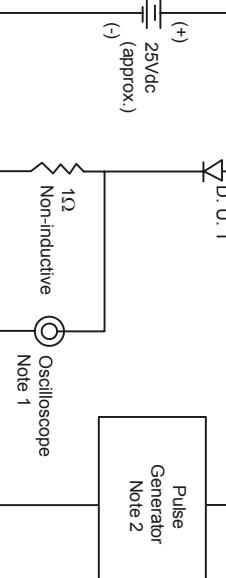
* Effective: 7/8/02

* DCP No: 1398



1.0 (25.4)
Minimum Typical

0.034 (0.86)
0.028 (0.71)



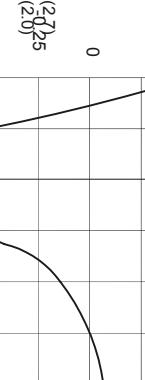
Notes:

1. Rise Time = 7ns max.

Input Impedance = 1 Megohm, 22dF

2. Rise Time = 10ns max.

Source Impedance = 50 Ohms.



Maximum Ratings and Electrical Characteristics:
(Rating at 25°C ambient temperature, unless otherwise specified)

1. Peak Reverse Voltage, Repetitive: V_{RRM} : 800V
2. Maximum RMS Voltage: 560V
3. DC Blocking Voltage: VR: 800V
4. Average Forward Current, I, at $T_a = 55^\circ\text{C}$
- 3.8 lead length, 60 Hz resistive or inductive load: 1.0 A
5. Peak Forward Surge Current, I_{FSM} (surge): 8.3msec single half sine-wave superimposed on rated load (JEDEC method): 30.0 A
6. Maximum Forward Voltage V, at 1.0A, 25°C: 1.70 V
7. Maximum Forward Current:

at Rated $T_a = 25^\circ\text{C}$: 10.0 μA
at Reverse Voltage $T_a = 100^\circ\text{C}$: 500 μA

8. Typical Junction Capacitance (Note 1): C_J : 17.0 pF

9. Typical Junction Resistance (Note 2): R_{JUA} : 60.0 $^\circ\text{C}/\text{W}$

10. Reverse Recovery Time ($t_r = 0.5\text{A}$, $I_r = 1\text{A}$, $I_i = 0.25\text{A}$): 75ns

11. Operating and Storage Temperature Range: -55°C to +150°C

Notes:

1. Measured at 1 MHz and applied reverse 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.

Set Time Base for 50ns/cm

-1.0

0

0.107 (2.75)

0.080 (2.0)

1cm

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED

HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE
BELIEVE TO BE ACCURATE AND RELIABLE. SINCE
CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE
DIMENSIONS ARE
INTENDED USE AND ASSUME ALL RISK AND
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UNLESS OTHERWISE
SPECIFIED,
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FOR REFERENCE
PURPOSES ONLY.

NOTES:

1.0 (25.4)

0.160 (4.1)

0.205 (5.2)

0.034 (0.86)

0.028 (0.71)

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0.160 (4.1)

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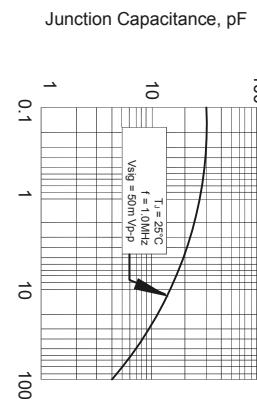
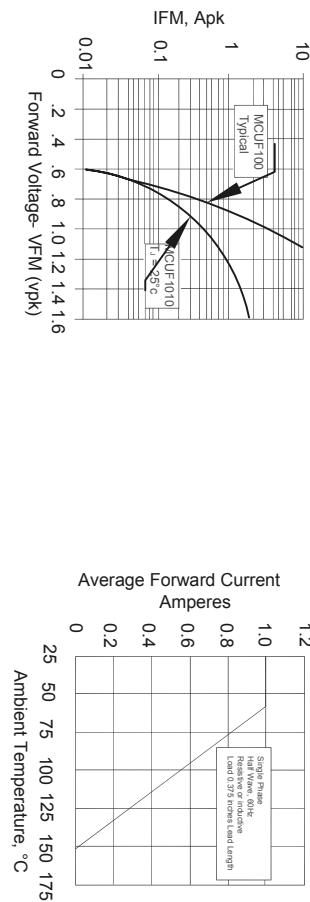
TOLERANCES:		DRAWN BY: VEE		DATE: 10-08-10		DRAWING TITLE: Ultrafast Switching Rectifier, 1.0 Ampere	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.		CHECKED BY: JAG		DATE: 11-08-10		SIZE A DWG. NO. XXX	
APPROVED BY:		DATE: 24-08-10		SCALE: NTS		ELECTRONIC FILE XXX.DWG	
APPROVED BY:		DATE: 24-08-10		SCALE: U.O.M.: Millimeters		REV A	
APPROVED BY:		DATE: 24-08-10		SHEET: 1 OF 1			

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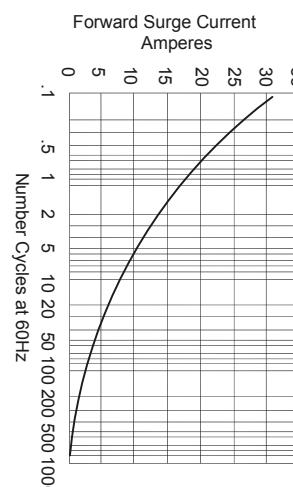
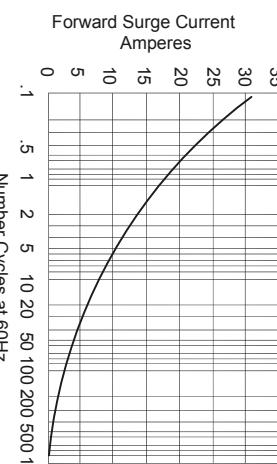
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A circular logo consisting of a dense, symmetrical pattern of overlapping curved lines, resembling a stylized flower or a complex gear.

REVISIONS		DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398							
DCP #	REV	DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		VEE	10-08-10	JAG	11-08-10	XXX		24-08-10	



1000



Peak Forward Surge Current

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DRAWN BY:	DATE:	DRAWING TITLE: ULtrarfast Switching Rectifier, 1.0 Ampere		
VEE	10-08-10			
CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE
JAG	11-08-10	A	XXX	XXX.DWG
APPROVED BY:	DATE:	SCALE:	U.O.M.: Millimeters	REV
XXX	24-08-10	NTS	U.O.M.: Millimeters	A
			SHEET:	1 OF 1