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SPC-FR004.DWG

REVISIONS		DOC. NO.	SPC-FR004	Effective	7/9/02	Doc#	Rev.	1398
DOP #	REV	DESCRIPTION	DRAWN	DATE	CHECKED	DATE	APPROV	DATE
			YEE	09-08-10	JAG	11-08-10	XXX	09-08-10

- Features:**
- High current capability
  - Plastic package, UL94V-0 utilizing flame retardant epoxy molding compound
  - Exceeds environmental standard of MIL-STD-19500/228
  - Low leakage



**Mechanical Data:**

- Case : Molded plastic, DO-201 AD
- Terminals : Plated axial leads, solderable per MIL-STD202, Method 208
- Polarity : Color band denotes cathodes
- Mounting Position : Any
- Weight : 0.04 ounce, 1.1 Grams

**Rated and Electrical Characteristics:**

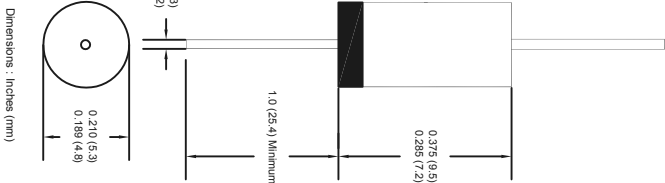
- Maximum peak reverse voltage : 200V
- Maximum average reverse voltage : 140V
- Maximum DC blocking voltage : 200V
- Maximum average forward rectified current : 3.0A
- 0.375" (9.5mm) lead length at TA = 95°C
- Peak forward surge current 8.5ms Single half sine-wave : 200A
- Superimposed on rated load (JEDEC method) : 12V
- Maximum non-steady state forward voltage at 3.0A DC : 1.2V
- Maximum DC reverse current at rated : TA = 25°C: 5.0mA  
: TA = 100°C: 500mA
- Maximum full load reverse current (Full Cycle Average 5" (12.5mm) lead length at TL = 105°C : 0.5mA
- Typical junction capacitance (Note 1) : 28.0 pF
- Typical thermal resistance RqJA (Note 2) : 20.0°C/W
- Operating and storage temp. range TJ, Tsg : -55°C to +150°C

**Notes:**

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 Volts
- 2 - Thermal resistance junction to ambient at 0.375 inches (9.5mm) lead length, r C B mounted with 0.8 x 0.8" (20 x 20mm) copper heatsink

**Part Number Table**

Description	Part Number
General Purpose Rectifier, High Current, Silicon	MCT1N5402TRRH



Dimensions : Inches (mm)

DISCLAIMER:  
DIMENSIONS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER ASSUMES ALL LIABILITY FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:  
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:		DATE:		DRAWING TITLE:		ELECTRONIC FILE	
YEE	09-08-10	General Purpose Rectifier, High Current, Silicon		20C3370			
CHECKED BY:		DATE:		DWG. NO.:		REV	
JAG	11-08-10	XXX		XXX		A	
APPROVED BY:		DATE:		SCALE:		U.O.M.: INCHES [mm]	
XXX	20-08-10	MNS				SHEET: 1 OF 1	