查询MCT4R供应商

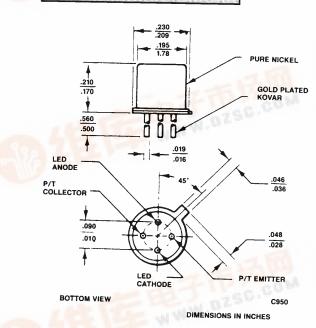
捷多邦,专业PCB打样工厂,24小时加急出货



PACKAGE DIMENSIONS

RELIABILITY CONDITIONED HERMETIC PHOTOTRANSISTOR OPTOCOUPLER

MCT4R



DESCRIPTION

The MCT4R is a standard four-lead, TO-18 package containing a GaAs infrared emitting diode optically coupled to a silicon planar phototransistor.

FEATURES

- Hermetic package
- High current transfer ratio; typically 35%
- High isolation resistance, 10¹¹ ohms at 500 volts
- High voltage isolation emitter to detector
- Screened to MIL-STD-883 Class B

APPLICATIONS

The MCT4R is designed and manufactured to conform to the requirements of military systems. Reliability testing has proven the product capable of conforming to the screening and quality conformance requirements of MIL-STD-883C Class B devices.

SCREEN—100%			
Characteristic	Method		
nternal Visual Stabilization Bake emperature Cycle Centrifuge termeticity Critical Electrical Burn In Final Electrical Broup A Sample Inspection External Visual	2010 — Characteristics applicable to device 1008 — 150°C. for 48 hours 1010 — 10 cycles; -55°C., 25°C., 150°., 25°C. 2001 — Test Condition E 1014 — Fine and Gross — Data Sheet 1015 — 160 hours @ 125°C — Data Sheet 5005 Table I Subgroups		





SEMICONDUCTOR

RELIABILITY CONDITIONED HERMETIC PHOTOTRANSISTOR OPTOCOUPLER

CHARACTERISTIC	METHOD	LTPD
Subgroup I		
Visual Mechanical	0000	15%
Marking Permanency	2008	1576
Physical Dimensions		
Subgroup II		150/
Solderability	2003	15%
Subgroup III		
Thermal Shock	1011 — 15 cycles; 150°C. to −65°C.	
Temperature Cycle	1010 — 10 cycles; -55°C., 25°C., 150°C., 25°C.	15%
Moisture Resistance	1004	
Critical Electrical	 Data Sheet 	
Subgroup IV		
Mechanical Shock	2002 — Condition B	15%
Vibration Fatigue	2005 — Condition A	
Vibration Variable Frequency	2007 — Condition A	
Constant Acceleration	2001 — Condition E	
Critical Electrical	Data Sheets	
Subgroup V		
Lead Fatigue	2004 — Condition B ₂	15%
Hermeticity	1014 — Fine Condition A	
	Gross Condition C	
Subgroup VI		
Salt Atmosphere	1009 — Condition A	15%

CHARACTERISTIC	METHOD	LTPD
Subgroup VII High Temperature Storage Critical Electrical	1008 — 150°C. for 1000 hours — Data Sheet	7%
Subgroup VIII Operating Life Critical Electrical	1005 — Condition B — Data Sheets	7%
Subgroup IX Steady State Reverse Bias	1015 — Condition A; 72 hours at 150°C.	7%
Subgroup X Bond Strength	2001 — Condition C; 10 devices only	

Reference: MIL-STD-883C Test Methods and Procedures for Microelectronics.



RELIABILITY CONDITIONED HERMETIC PHOTOTRANSISTOR OPTOCOUPLER

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.