



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Reliability Report

For

RT8456

Richtek Technology Corporation

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Purpose

- The HTOL test is to demonstrate the quality or reliability of device subjects to the specified conditions over an extended time period.
- The ESD tests are used to classify the electrostatic discharge of microcircuits.
- The latch-up test is used to check IC latch-up characteristics.
- The environment tests are to ensure the process of assembly of this package type that meets Richtek quality specifications.

Test Items and Conditions

Items	Condition	Readout	Q'ty	Rejects	Reference
HTOL	T _a =125°C, VIN=1.1*VIN_MAX	1000 hours	77	0	JESD22-A108
ESD	HBM	--	3/ VOLT	0	JESD22-A114
	MM	--	3/ VOLT	0	JESD22-A115
	CDM	--	3/ VOLT	0	JESD22-C101
Latch-up	I-TEST	--	9	0	JESD78A
	V-TEST				
Preconditioning MSL-3					
Bake	125°C	24 hours	385	0	JESD22-A113
MSL-3 Soaking	30°C/ 60% RH	192 hours	385	0	
Reflow	260 +0/-5°C	3 cycles	385	0	
HTST	T _a =150°C	1000 hours	77	0	JESD22-A103
THT	T _a =85°C, 85%RH	1000 hours	77	0	JESD22-A101
TCT	T _a =-65°C ~ 150°C	500 cycles	77	0	JESD22-A104
PCT	T _a =121°C, 100%RH, 2ATM	168 hours	77	0	JESD22-A102
uHAST	T _a =130°C, 85%RH	96 hours	77	0	JESD22-A118

- NOTE:**
1. Preconditioning MSL-3 test was done before HTST, THT, TCT, PCT and uHAST tests.
 2. All assembly houses are Richtek qualified suppliers.

Summary

- The test results can be applied to all of the products including a series of RT8456.
- Any questions or inquiries for regarding related products or service of Richtek, you may contact us through our technical support center.

(<http://www.Richtek.com/contact10.1.jsp>)