

T521 Series - High Voltage Polymer

Product Specification

Features

- High Voltage (20V - 35V)
- 15uF Capacitance value
- High Ripple Current Capability
- Volumetrically Efficient
- Stable temperature characteristics
- Safe failure mode
- Low ESR (125mOhm)
- Pb Free[#]/RoHS Compliant & Halogen Free

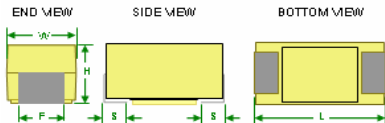
[#] When ordered with 100% Sn Termination Finish

Specifications

Item	Performance Characteristics							
Operating Temperature	-55° C to 125° C							
Rated Capacitance Range	15uF - 47uF @ 120 Hz/25° C							
Capacitance Tolerance	M Tolerance (20%)							
Rated Voltage Range	20V - 35V							
Dissipation Factor (DF)	≤ 10%							
ESR (100KHz)	Refer to Part Number Electrical Specification Table							
Leakage Current	≤ 0.1CV (μA) at Rated Voltage after 5 minutes							
Endurance	105° C @ Rated Voltage, 2000 Hrs. 125° C @ 2/3 Rated Voltage, 2000 Hrs.	ΔC/C	Within -20/+10 of initial value					
		DF	≤ Initial Limit					
		DCL	IL @ 105° C, 2x IL @ 125° C					
		ESR	2x Initial Limit					
Humidity	60° C, 90% RH, 500Hr, No Load	ΔC/C	Within -5%/+35% of initial value					
		DF	≤ Initial Limit					
		DCL	Within 3.0 x initial limit					
Temperature Stability	Extreme temperature exposure at a succession of continuous steps at +25 C, -55 C, +25 C, +85 C, +125 C, +25 C.	+25°C	-55°C	+85°C	+125°C			
		ΔC/C	IL*	+/-20%	+/-20%	+/-30%		
		DF	IL	IL	1.2 x IL	1.5 x IL		
		DCL	IL	n/a	10 x IL	10 x IL		
Surge Voltage	105°C, 1.32 x Rated Voltage 1000 cycles	ΔC/C	Within -20/+10 of initial value					
		DF	Within initial limits					
		DCL	Within initial limits					
		ESR	Within initial limits					

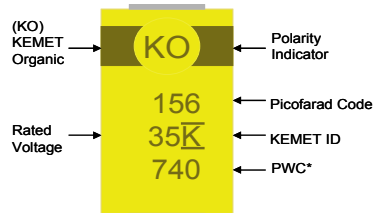
* IL = Initial Limit

Component Dimensions and Case Codes



Case Codes		Component Dimensions (mm)				
		L	W	H	F ± 0.1	S ± 0.3
KEMET	EIA					
V	7343-20	7.3±0.3	4.3±0.3	1.9 max	2.4	1.3

Component Marking



* 740 = 40th week of 2007

Explanation of Part Number

T521	V	156	M	035	A	I	E125
Series	Case Code	Capacitance	Capacitance Tolerance (M=20%)	Voltage	Failure Rate (A=Not Applicable)	Termination Material T = 100% Sn (H = 90%Sn/10%Pb)	Maximum ESR Limit E125=125mΩ

Part Number Specification

KEMET Part Number	KEMET Part Number	Cap (μF)	Voltage	DCL VR (μA)	DF 120Hz (%)	ESR 100KHz (mΩ)	Maximum allowable ripple current (mA rms) 100kHz*	MSL Reflow Temp ≤260°C
T521V156M035A(1)E125	V/7343-20	15	35	52.5	10	125	1200.0	3.0

(1) To complete KEMET Part Number, insert letter designation for lead frame material

*100KHz to 500KHz, 45 C