T521 Series - High Voltage Polymer

Preliminary Product Specification

Features

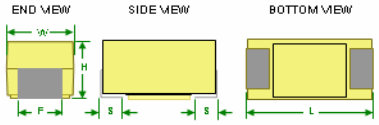
- High Voltage (35V)
- Capacitance values to 15uF
- High Ripple Current Capability
- Long Life 125° C/1000 Hrs
- Stable temperature characteristics
- Safe failure mode
- Low ESR (100mOhm)
- Pb Free/RoHS Compliant & Halogen Free

Specifications

Item	Performance Characteristics					
Operating Temperature	-55° C to 125° C					
Rated Capacitance Range	15uF @ 120 Hz/25° C					
Capacitance Tolerance	M Tolerance (20%)					
Rated Voltage Range	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	125° C @ Rated Voltage, 1000 Hrs.		ΔC/C	Within -20/+10 of initial value		
			DF	≤ Initial Limit		
			DCL	Within 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		

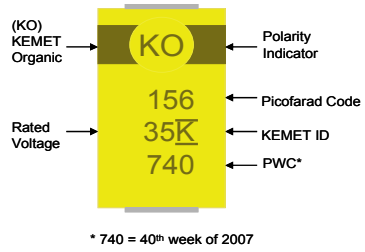
* IL = Initial Limit

Component Dimensions



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	2.0 max	2.4	1.3

Component Marking



* 740 = 40th week of 2007

Part Number Specification

KEMET Part Number	Case	Cap (μF)	Voltage	DCL VR (μA)	DF 120Hz (%)	ESR 100KHz	Ripple Current (Arms) 100KHz	
							ΔT=20°C @	ΔT=2°C
T521V156M035ATE100	V/7343-20	15	35	52.5	10	100	1.1	0.4

Notice: All data contained within this specification sheet is subject to change prior to official release of this series.