

TECHNICAL DATA
PART NUMBER SCP-6222, REV.-

14.5KW Unidirectional Hermetic TVS

DESCRIPTION: 40V 250A Pulse capable Transient Voltage Suppressor Diode in a Hermetic stack.

FEATURES:

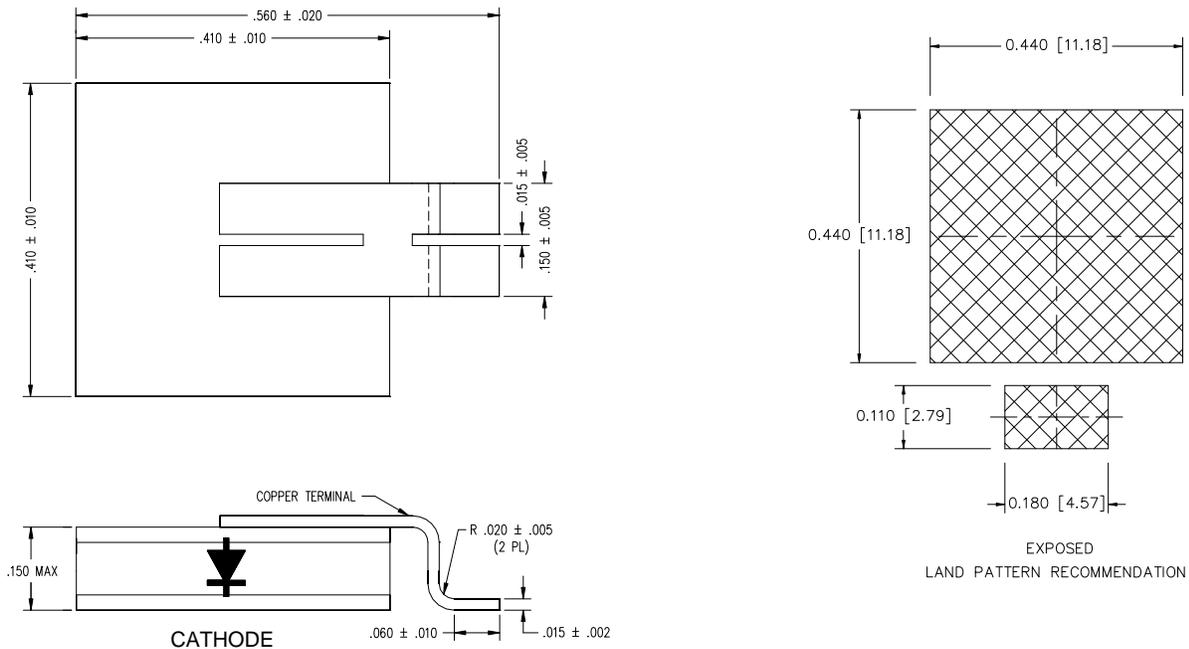
- Low Package Inductance
- Hermetically sealed package

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	Test Current $I_T = 1\text{mA}$	40.0	43.0	-	V
Reverse Stand-off Voltage (V_{RWM})	Leakage Current $I_L = 5\ \mu\text{A}$	36.0	-	-	V
Maximum Reverse Current (I_{R1}) @ V_{RWM}	$T_A = 25^\circ\text{C}$	-	0.3	5	μA
	$T_A = 125^\circ\text{C}$	-	-	300	
Maximum Clamp Voltage $V_{C(max)}$	$I_{PP} = 250\text{A}$, $t_r = 10\ \mu\text{s}$, $t_p = 1\text{ms}$	-	55	58	V
Maximum Clamp Voltage $V_{C(max)}$	$I_{PP} = 200\text{A}$, $t_r = 6\ \mu\text{s}$, $t_p = 70\ \mu\text{s}$	-	48	51	V
Maximum Peak Pulse Current (I_P)	$t_r = 10\ \mu\text{s}$, $t_p = 1\text{ms}$	-	-	250	A
Maximum Peak Power	$t_r = 10\ \mu\text{s}$, $t_p = 1\text{ms}$	14500	-	-	W
Thermal Resistance	Junction to Case	-	0.2	-	$^\circ\text{C/W}$
Peak Power Derating		-	96.6	-	$\text{W}/^\circ\text{C}$
Operating and Storage Temp. (T_{op} & T_{stg})		-55	-	+175	$^\circ\text{C}$

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MECHANICAL DIMENSIONS In Inches



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