



Part: 15KP51A
 Series: 15000W Axial Leaded TVS Diode - 15KP Series
 Technology: Silicon Avalanche Diode (SADs)

PARAMETERS		
Package Type	Pkg Type	Axial Leaded
Mount Method	Mount	Through Hole
Maximum Reverse Leakage Current	I _R	10.00
Maximum Temperature	Max Temp (°C)	175.00
Standoff Polarity	Polarity	Unipolar
Tolerance	Tolerance	5
Breakover Voltage	V _{BO} MIN (V)	0.00
Maximum Breakover Voltage	V _{BO} MAX (V)	0.00
On-state forward Voltage	V _F (V)	0.00
Minimum Foldback Voltage	V _{FB}	0.00
Reverse Standoff Voltage	V _{SO}	51.00
Device Wattage	Watts	15000
AC Working Voltage	VAC	40
Reverse Stand-off Voltage	V _R (V)	51.00
Breakdown Voltage @ I_T	V _{BR} MIN (V)	56.70
Breakdown Voltage @ I_T	V _{BR} MAX (V)	0.00
Test Current	I _T (mA)	5.00
Clamping Voltage	V _{CL} @ I _{PP} (µA)	82.80
Peak Pulse Current	I _{PP} 10x1000(A)	181.00
Peak Pulse Current	I _{PP} 8x20 (A)	
Max Capacitance	C _{TYP} (pF)	0
Working Inverse Blocking Voltage	V _{WIB} (V)	0.00
Inverse Blocking Leakage Current	I _{IIB} @ V _{WIB} (µA)	0.00
Peak Inverse Blocking Voltage	V _{PIB} (V)	0.00
Peak Pulse Current	I _{PP} (A)	181.00
Minimum Zener Voltage @ I_Z	V _Z MIN (V)	0.00
Maximum Zener Voltage @ I_Z	V _Z MAX (V)	0.00
Zener Current	I _Z (A)	0.00
Zener Resistance	Resistance (Ohms)	0.00
Peak Pulse Power - 10x1000µs	P _{PP} 10x1000µs (W)	15000
Peak Pulse Power - 8x20µs	P _{PP} 8x20µs (W)	0
Peak Pulse Power - 10x160µs	P _{PP} 10x160µs (W)	0
Battery/System Voltage 12/14	Volt 12/14	
Battery/System Voltage 24/28	Volt 24/28	
Battery/System Voltage 36/42	Volt 36/42	Y
Certifications	Cert	



PROTECTS AGAINST:

Lightning Transients

AC Mains

Telecom - DC Power

Other Threats

Automotive - Load Dump

ESD

Inductive Switching / Commutative Spikes