



Radial Lead 15KA Bi directional TVS Diode Surge Suppressor KD-076 20 μ A IR 145VC

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: KD-076
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Product Name: TVS Diodes
- Package Type: Radial Lead
- Vac: 54V
- Vdc: 76V
- Vbr@It (Min.): 85V
- It: 10mA
- Ipp: 15KA
- Vc@Ipp: 145V
- Ir@Vdc: 20 μ A
- Storage Temperature Range: -55 To +150
- Highlight: **15KA Bi directional TVS Diode,
Radial Lead Bi directional TVS Diode**

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Product Description

15KA Blue Powder Surge Suppressor Bi-directional TVS Diode KD-076 20μA IR 145VC

DATASHEET: [KD_v211.1.pdf](#)

TVS Diode KD-076 Description:

The KD Series of high current transient suppressors have been specially designed for use in A.C. line protection and any demanding applications (AC or DC). Any voltage rise due to increased current conduction is contained to a minimum, providing the best possible protection level. They can also be connected in series and/or parallel to create very high capacity protection solutions.

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Reverse Leakage
	VAC(V)	VDC(V)	V _{BR} (V) MIN.@I _T	I _T (mA)	I _{PP} 8/20μs (KA)	V _C (V) @I _{PP}	I _R (μA) @VDC
KD-012	8.5	12.8	14	10	15	28	20
KD-015	11	15	17	10	15	30	20
KD-020	14	20	22	10	15	40	20
KD-025	17	25	28	10	15	50	20
KD-030	21	30	33	10	15	60	20
KD-042	30	42	47	10	15	77	20
KD-058	40	58	64	10	15	110	20
KD-066	45	66	70	10	15	125	20
KD-076	54	76	85	10	15	145	20

TVS Diode KD-076 Features:

It is a Axial lead terminal
 High current transient suppressor
 TVS Diode Has Excellent Clamping Capability
 Glass Passivated Junction
 It is Bi-directional
 TVS Diode has Low Slope Resistance
 Repetition Rate (duty cycle):0.01%
 Hazardous Substances Free
 Compliance with RoHS Compliant
 High Temperature soldering: 260°C/10 seconds at terminals
 Epoxy Encapsulated
 Silver plated leads
 Solderable per MIL-STD-202 Method 208

TVS Diode KD-076 Parameter	Symbol	Value	Unit
TVS Diode Operating junction	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
TVS Diode Current Rating ¹	I _{PP}	15	KA

Notes:

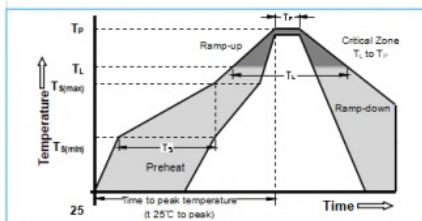
1. Rated IPP measured with 8 × 20μs pulse.

TVS Diode KD-076 Weight	Contact manufacturer
TVS Diode KD-076 Case	Epoxy encapsulated
TVS Diode KD-076 Terminal	Silver plated leads, solderable per MIL-STD-750, Method 2026

Functional Diagram



Soldering Parameters



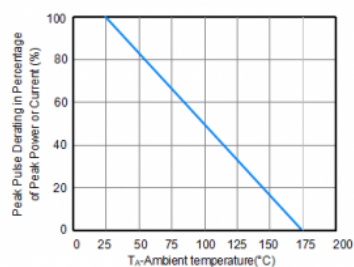
Flow/Wave Soldering (Solder Dipping)

Peak Temperature :	265°C
Dipping Time :	10 seconds
Soldering :	1 time

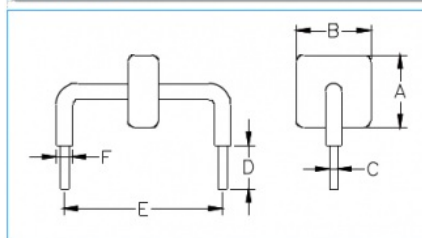
Reflow Condition		Lead-free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (min to max) (T_d)	60 -180 Seconds
Average ramp up rate (Liquidus Temp T_L) to peak		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Time (min to max) (T_L)	60 -150 Seconds
Peak Temperature (T_P)		260 +0/-5°C
Time within 5°C of actual peak Temperature (t_P)		20 -40 Seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max
Do not exceed		280°C

Ratings and Characteristic Curves (TA=25°C unless otherwise noted)

Pulse Derating Curve

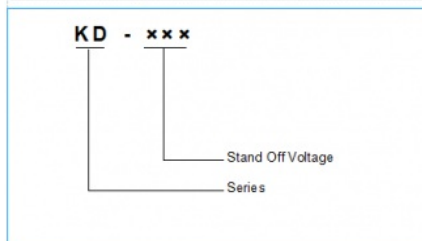


Dimensions

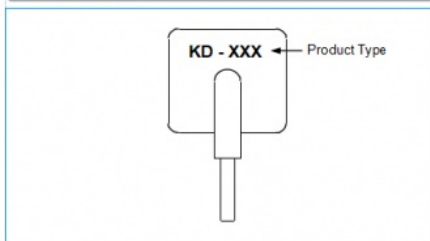


Dimensions	Inches	Millimeters
A	max 0.571	max 14.5
B	Max0.500	max 12.7
C	$\Phi 0.051 \pm 0.004$	$\Phi 1.30 \pm 0.1$
D	0.236 ± 0.040	6.0 ± 1.0
E	0.950 ± 0.028	24.15 ± 0.7
F	max 0.10	max 2.5

Part Numbering



Part Marking



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