

DGKD058, DGKD076

BIDIRECTIONAL TRANSIENT VOLTAGE SUPPRESSORS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

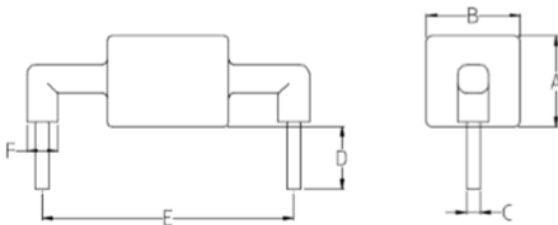
Rating	Symbol	Value
Current Rating, Rated I_{PP} measured with 8/20 μ s pulse	I_{PP}	15KA
Operating and Storage Temperature Range	T_J, T_{STG}	-55° to 150°C

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

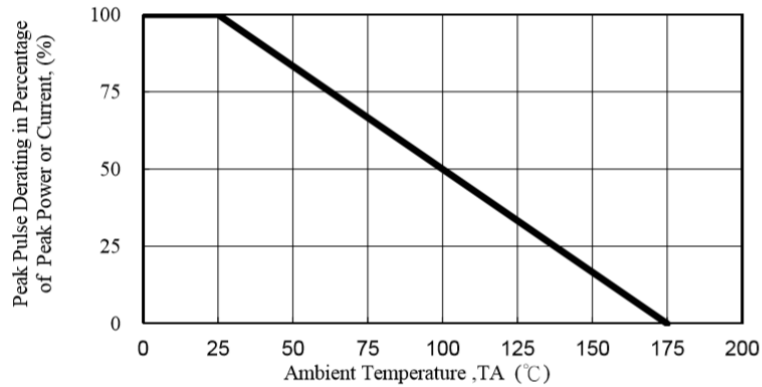
Part number	Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Maximum Reverse Leakage
		$V_{(BR)} @ I_T$	I_T	I_{PP}		$I_R @ V_{DC}$
	V_{DC}	VOLTS	mA	8/20 μ s	$V_C @ I_{PP}$	I_D
	VOLTS	MIN		KA		VOLTS
DGKD058	58	64	10	15	110	20
DGKD076	76	85	10	15	150	20

MECHANICAL CHARACTERISTICS

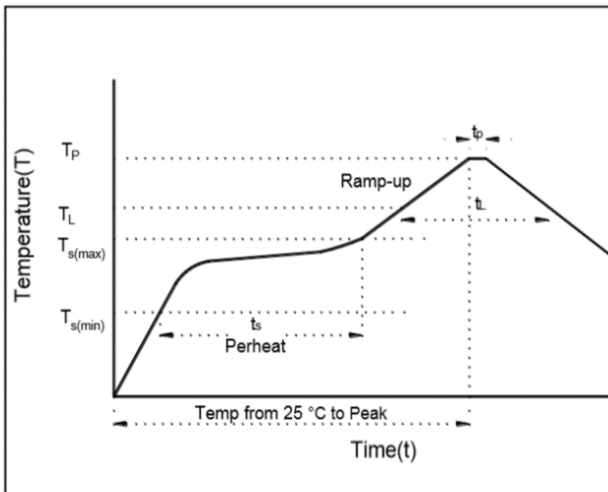
Case:	DIGI KD
Marking:	Alpha-Numeric



	DIGI KD			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.685	-	17.400
B	-	0.626	-	15.900
C	0.047	0.055	1.200	1.400
D	0.257	0.295	6.500	7.500
E	0.922	0.978	23.45	24.85
F	-	0.158	-	4.000



Pulse Derating Curve



IR- Reflow Condition			
Pre-Heat	Temp. Min	150	°C
	Temp. Max	200	°C
	Time (min to max)	60-180	sec
Ramp up rate (150-200°C)		< 3	°C/sec

Reflow	Liquidus Temp.	>220	°C
	Peak Temp.	255-260	°C
	Time (Liq. to peak)	60-150	°C
Ramp up rate (220-200°C)		< 3	°C/sec
Time within actual peak temp.		10-30	sec

Ramp Down Rate	< 5	°C/sec
Time (25°C to peak temp)	< 6	min
Do not exceed	280	°C