

High-reliability discrete products and engineering services since 1977

DGK1076

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

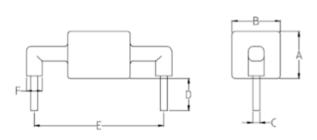
Rating	Symbol	Value	
Current Rating, Rated IPP measured with 8/20°s pulse	Ірр	1KA	
Operating and Storage Temperature Range	T _J , T _{STG}	-55° to 150°C	

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Reverse Stand-Off Voltage	Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Maximum Reverse Leakage
Part number		V _(BR) @ I _T	lτ	I _{PP}	Vc @ Ipp	I _R @ V _{DC}
	V _{DC}	VOLTS	4	8/20μs		Iο
	VOLTS	MIN	mA	KA	VOLTS	μΑ
DGK1076	54	83	10	1	135	20

MECHANICAL CHARACTERISTICS

Case:	DIGI K1
Marking:	Alpha-Numeric



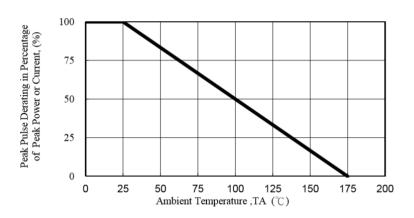
	DIGI K1			
	Inches		Millin	neters
	Min	Max	Min	Max
Α	-	0.571	-	14.500
В	1	0.500	-	12.700
O	0.047	0.055	1.200	1.400
D	0.257	0.295	6.500	7.500
Е	0.922	0.978	23.45	24.85
F	-	0.158	-	4.000



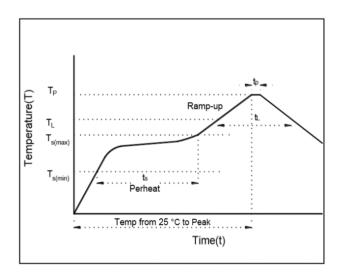
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Pulse Derating Curve



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-	°C
		260	
	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