

Features

- Fast Switching Speed
- Low Forward Voltage Drop
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free Plating
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- . Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

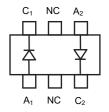
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS40V	KAN	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	V _(BR)	40V	I _R = 10μA
Average Forward Current	I _F	200mA	
Power Dissipation	P_d	150mW	
Maximum Forward Voltage	V _F	380mV 1000mV	I _F =1.0mA,tp<300μs I _F =40mA,tp<300μs
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.2μΑ	$V_R = 30V, t_p < 300 \mu s$
Maximum Total Capacitance	Ст	5.0pF	Measured at 1.0MHz, V _R =0.0V
Maximum Reverse Recovery Time	t _{rr}	5nS	$I_F=I_R=10$ mA, $I_T=1$ mA, $R_L=100$ Ω

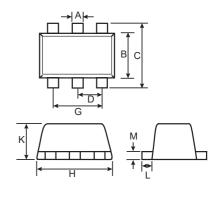
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:



150mW,40Volt Schottky Barrier Diode

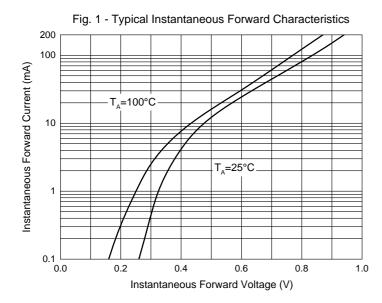
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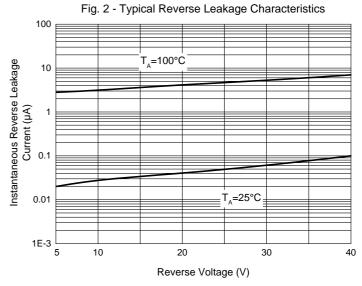


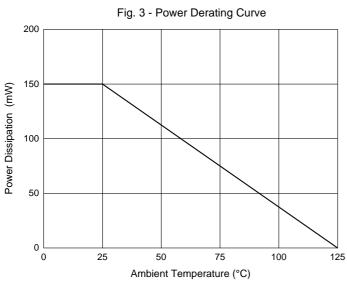
DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.006	0.011	0.15	0.30			
В	0.043	0.051	1.10	1.30			
С	0.059	0.067	1.50	1.70			
D	0.020		0.50		TYP.		
G	0.035	0.043	0.90	1.10			
Н	0.059	0.067	1.50	1.70			
K	0.022	0.026	0.55	0.65			
L	0.004	0.011	0.10	0.30			
М	0.004	0.007	0.10	0.18			



Curve Characteristics









Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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