

Features

- · Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- · High Conductance
- Fast Switching Speed
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number	Device Marking	Reverse Voltage V _R	RMS Reverse Voltage V _{R(RMS)}
BAV23AHE3	KT7	240V	170V
BAV23CHE3	KT6	240V	170V
BAV23SHE3	KL31	240V	170V
Forward DC Current	I _{FM}	225mA	T _A =25°C
Non-Repetitive Peak Forward Surge Current	I _{FSM}	9.0A 3.0A	@ t = 1.0μs @ t = 100μs
Repetitive Peak Forward Surge Current	I _{FRM}	320mA	
Power Dissipation	P _D	350mW	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown Voltage	V_{BR}	250V	I _R =100μA	
Maximum Forward Voltage	V_{F}	1.00V 1.25V	I _{FM} =100.0mA I _{FM} =200.0mA	
Maximum leakage current	I _R	100nA	V _R =250V	
Typical Junction Capacitance	CJ	5.0pF	V _R =0.0V,f=1.0MHz	
Maximum Reverse Recovery Time	t _{rr}	50.0ns	I_F =30mA, I_R =30mA I_{rr} =0.1* I_R , 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.

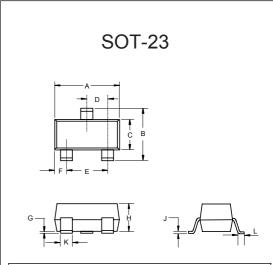
Internal Structure





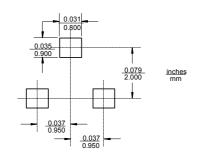


350mW Small Signal Diode



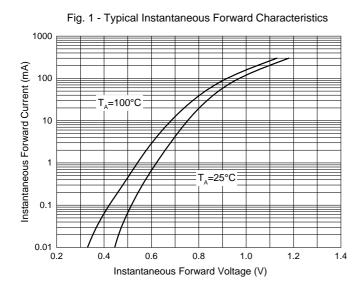
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014	0.020	0.35	0.51		
L	0.007	0.020	0.20	0.50		

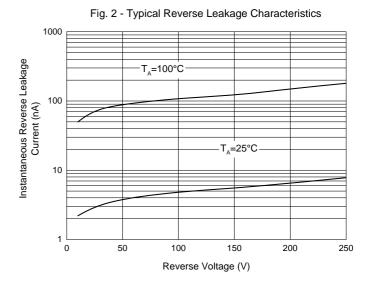
Suggested Solder Pad Layout

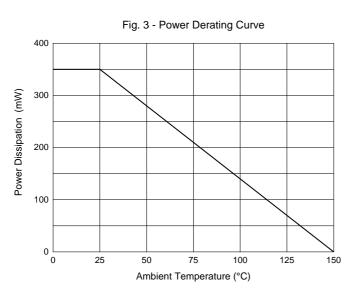




Curve Characteristics







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Ordering Information

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

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