

Features

- High Conductance
- Fast Switching Speed
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)}	
BAV23A	KT7	200V	141V	
BAV23C	KT6	200V	141V	
BAV23S	KL31	200V	141V	
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	
Power Dissipation	P _D	350mW		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown Voltage	V _{BR}	250V	Ι _R =100μΑ	
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 =100Ω	

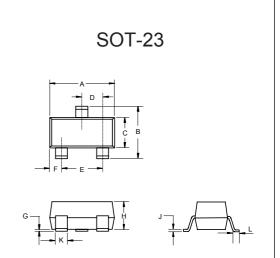
Internal Structure





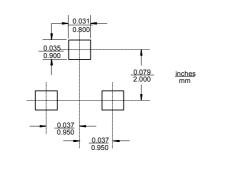


350mW Small Signal Diode



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	
Κ	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Curve Characteristics

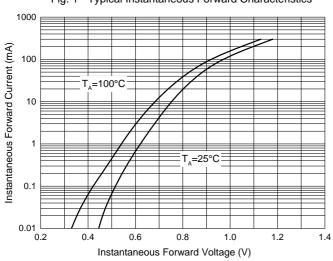


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics

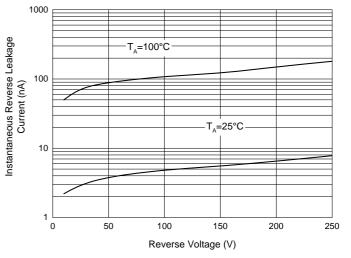
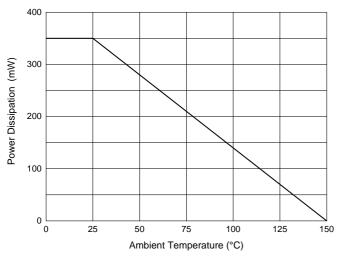


Fig. 3 - Power Derating Curve





Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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