

#### **Features**

- · High Conductance
- · Fast Switching Speed
- Halogen Free. "Green" Device (Note 1)
- · 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		Repetitive Peak Reverse Voltage	Reverse Voltage	RMS Reverse Voltage
Part Number   Marking	$V_{RRM}$	$V_R$	$V_{R(RMS)}$	
BAV23A	KT7	250V	200V	141V
BAV23C	KT6	250V	200V	141V
BAV23S	KL31	250V	200V	141V

Forward DC Current	I <sub>FM</sub>	225mA	T <sub>A</sub> =25°C
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	9.0A 3.0A 1.7A	@ t = 1.0μs @ t = 100μs @ t = 10ms
Repetitive Peak Forward Current	I <sub>FRM</sub>	625mA	
Power Dissipation	$P_{D}$	350mW	

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown Voltage	$V_{BR}$	250V	I <sub>R</sub> =100μA
Maximum Forward Voltage	V <sub>F</sub>	1.00V 1.25V	I <sub>FM</sub> =100.0mA I <sub>FM</sub> =200.0mA
Maximum leakage current	I <sub>R</sub>	100nA	V <sub>R</sub> =250V
Typical Junction Capacitance	$C_J$	5.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t <sub>rr</sub>	50.0ns	$I_{F}$ =30mA, $I_{R}$ =30mA $I_{rr}$ =0.1* $I_{R}$ , $R_{L}$ =100 $\Omega$

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

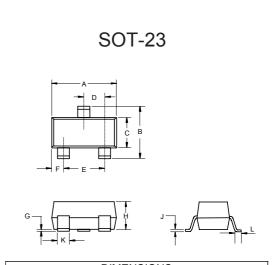
### **Internal Structure**





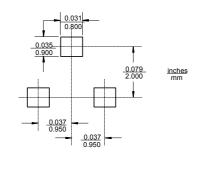


# 350mW Small Signal Diode



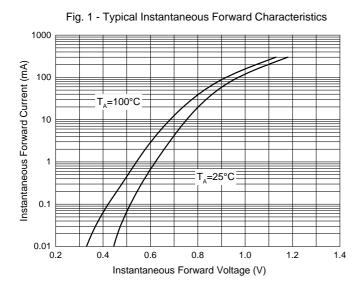
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35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

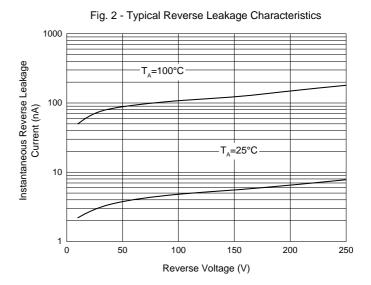
## Suggested Solder Pad Layout

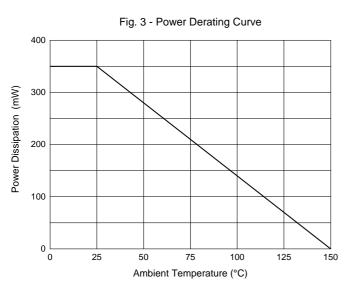




## **Curve Characteristics**









# **Ordering Information**

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

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