

## **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(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V <sub>RRM</sub>	RMS Reverse Voltage V <sub>R(RMS)</sub>	DC Blocking Voltage V <sub>R</sub>	
BAV23AHE3	250V	177V	250V	
BAV23CHE3	250V	177V	250V	
BAV23SHE3	250V	177V	250V	

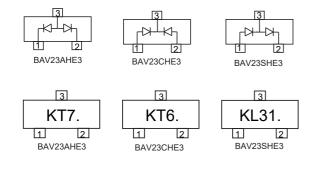
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I <sub>F(AV)</sub>	225mA	
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	9.0A 3.0A	@ t = 1.0µs @ t = 100µs
Repetitive Peak Forward Curren	I <sub>FRM</sub>	320mA	
Power Dissipation	P <sub>TOT</sub>	350mW	

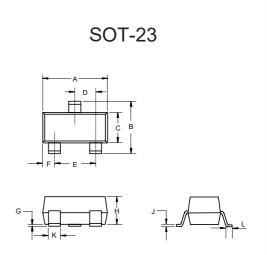
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Mounted on FR-4 board with recommended pad layout.

## Internal Structure and Marking Code

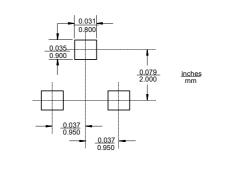


# 350mW Small Signal Diode



	DIMENSIONS					
DIM	INC	INCHES		М	NOTE	
DIVI	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





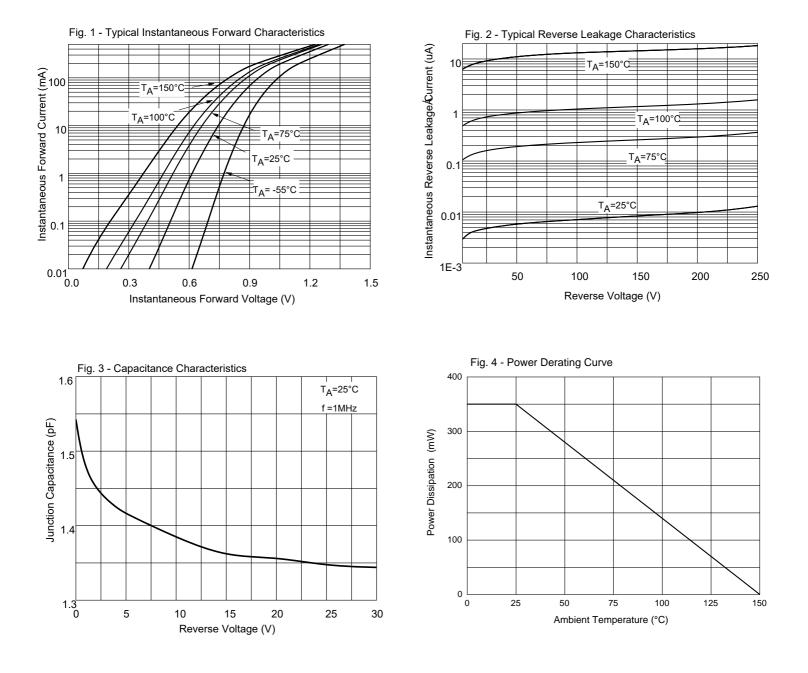
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
5HYHUVH %UHDNGR	Z Q 99, R O	WDJH \$	250			9
)RUZDUG 9ROWD	JH 9 <sub>)</sub>	"OP\$			1.00	9
		,20P\$			1.25	9
5HYHUVH &XUUH	Q W ,5	9 <sub>5</sub> 5 9			100	Q \$
-XQFWLRQ &DSDF	LWD&QFH	9 <sub>5</sub> 9 I 0	) + ]		5	S)
5HYHUVH 5HFRYHU	∖7LWP <sub>U</sub> H	, <sub>) ,5</sub> 3 P\$ ,∪∪ î₅ 5,			50	QV

3XOVH 7HVW 3XOVH : LGWK VHF 'XW\ & FOH



# **Curve Characteristics**





# **Ordering Information**

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

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