

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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: -55°C to +150°C
- Thermal Resistance:500°C/W Junction to Ambient(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R	
BAT54HE3	30V	21V	30V	
BAT54AHE3	30V	21V	30V	
BAT54CHE3	30V	21V	30V	
BAT54SHE3	30V	21V	30V	

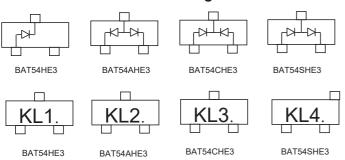
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Forward Current	I _{F(AV)}	200mA	(Note 2)
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
Power Dissipation	P _d	200mW	

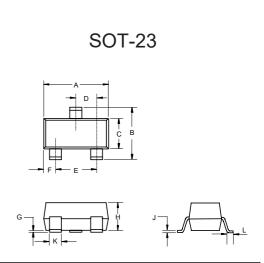
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code

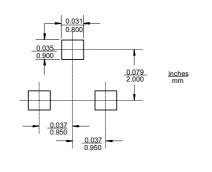


200mW 30V Schottky Barrier Diode



DIMENSIONS					
DIM INCH		HES MM		NOTE	
DIIVI	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





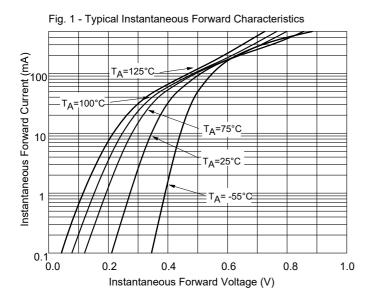
Electrical Characteristics @ 25°C Unless Otherwise specified

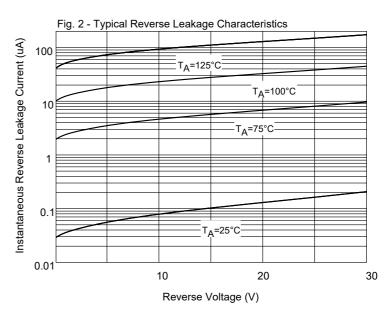
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	30			V
	.,	I _F =0.1mA			0.24	V
Forward Voltage	V _F	I _F =1mA			0.32	V
		I _F =10mA			0.40	V
		I _F =30mA			0.50	V
		I _F =100mA			0.80	V
Reverse Current	I _R	V _R =25V			2	uA
Junction Capacitance	CJ	V _R = 1V, f = 1MHz			10	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=1$ mA, $R_L=100$ Ω			5.0	ns

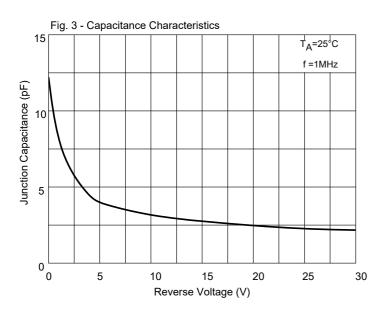
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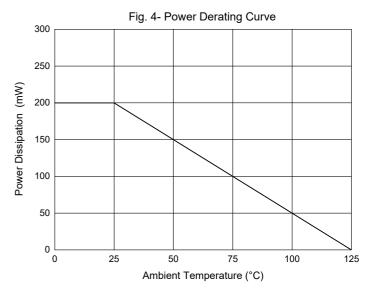


Curve Characteristics











Ordering Information

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

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