

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

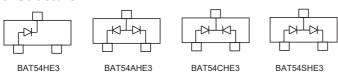
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum Working Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT54HE3	KL1	30V	30V	30V
BAT54AHE3	KL2	30V	30V	30V
BAT54CHE3	KL3	30V	30V	30V
BAT54SHE3	KL4	30V	30V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

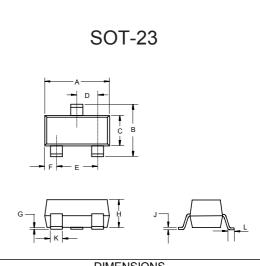
Average Forward Current	I _{F(AV)}	200mA			
Peak Forward Surge Current	I _{FSM}	600mA	t<1s		
Power Dissipation	P _d	250mW	T _A = 25 °C		
Maximum Instantaneous Forward Voltage	V _F	240mV 320mV 400mV 500mV 800mV	$I_F=0.1\text{mA}$ $I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2μΑ	V _R = 25V		
Maximum Junction Capacitance	CJ	10.0pF	Measured at 1.0MHz, V _R =1.0V		
Reverse Recovery Time	T _{rr}	5.0ns	$I_F=I_R=10\text{mA};$ $I_{(REC)}=1\text{mA}$		

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

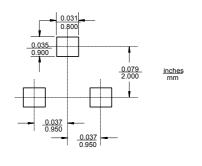


250mW 30V Schottky Barrier Diode



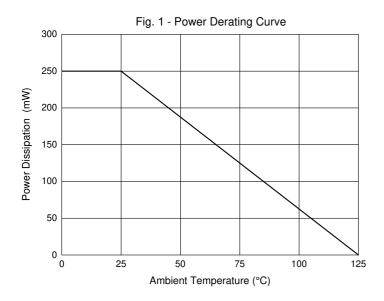
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014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

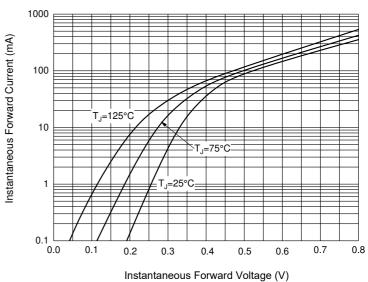
Suggested Solder Pad Layout

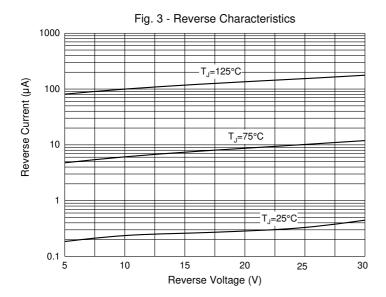




Curve Characteristics









Ordering Information

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

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