

Features

- Halogen Free. "Green" Device (Note 1)
- Fully Automotive Qualified to AEC-Q101
- 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 +150°C
 Storage Temperature Range: -55°C to +150°C
 Thermal Resistance: 625°C/W Junction to Ambient

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R	
BAT54WTHQ	30V	21V	30V	
BAT54AWTHQ	30V	21V	30V	
BAT54CWTHQ	30V	21V	30V	
BAT54SWTHQ	30V	21V	30V	

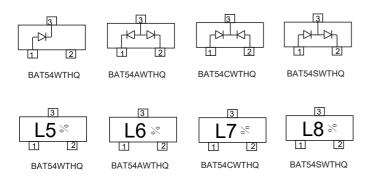
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	200mA	(Note 2)
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
Power Dissipation	P _d	200mW	T _A = 25 °C

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

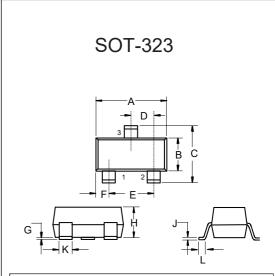
Note: 2.Mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code

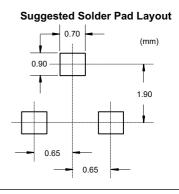


Note: 3. ≥ =placeholder for date code

200mW,30V **Schottky Barrier** Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	







Electrical Characteristics @ 25°C Unless Otherwise Specified

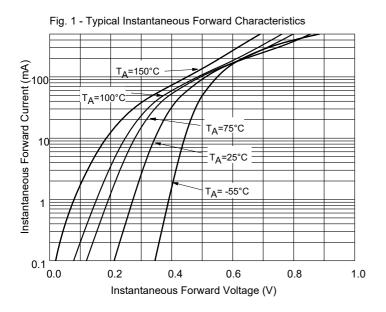
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =10μA	30			V
		I _F =0.1mA			0.24	V
		I _F =1mA			0.32	V
Forward Voltage	V _F	I _F =10mA			0.40	V
		I _F =30mA			0.50	V
		I _F =100mA			1.00	V
Reverse Current	I _R	V _R =25V			2.00	uA
Junction Capacitance	CJ	V _R = 1V, f = 1MHz			10	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$			5	ns

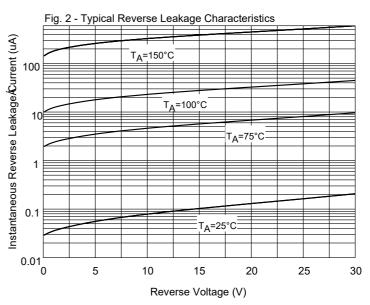
Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

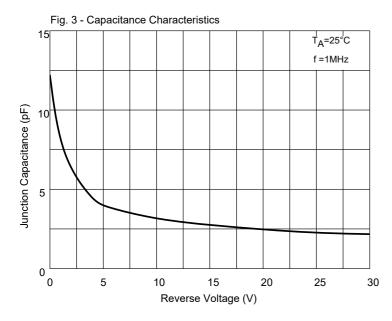
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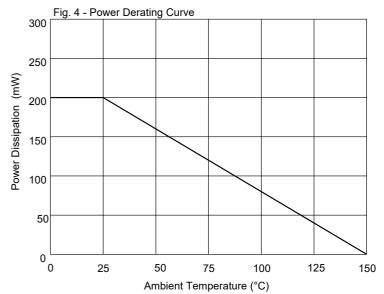


Curve Characteristics









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BAT54WTHQ.BAT54AWTHQ.BAT54CWTHQ.BAT54SWTHQ

Ordering Information

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

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