

Features

- Fast Switching Speed
- Low Forward Voltage Drop
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free Plating
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

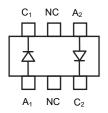
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:833°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT54V	KAV	30V	30V

Electrical Characteristics @ 25°C Unless Otherwise Specified

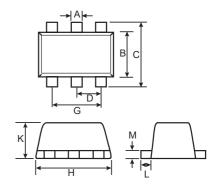
Minimum Reverse Breakdown Voltage	V _(BR)	30V	I _R = 100μA
Average Forward Current	I _F	200mA	
Power Dissipation	P _d	150mW	
Maximum Forward Voltage	V _F	380mV 1000mV	I _F =1.0mA,tp<300μs I _F =40mA,tp<300μs
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2μΑ	V _R = 25V
Maximum Total Capacitance	Ст	10.0pF	Measured at 1.0MHz, V _R =1.0V
Maximum Reverse Recovery Time	Trr	5nS	I _F =10mA, I _R =10mA~1mA R _L =100Ω

Internal Structure



150mW, 30Volt Schottky Barrier Diode

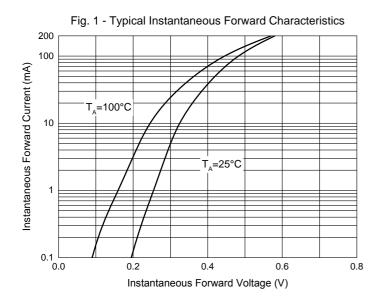
SOT-563

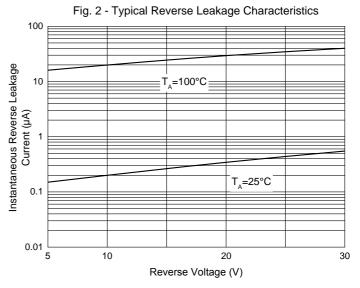


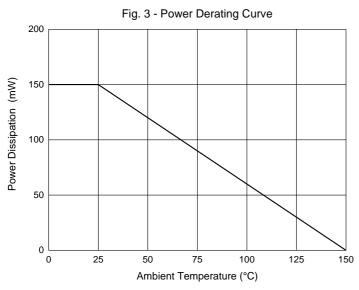
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.006	0.011	0.15	0.30		
В	0.043	0.051	1.10	1.30		
С	0.059	0.067	1.50	1.70		
D	0.020		0.50			
G	0.035	0.043	0.90	1.10		
Н	0.059	0.067	1.50	1.70		
K	0.020	0.023	0.52	0.60		
L	0.004	0.011	0.10	0.30		
М	0.004	0.007	0.10	0.18		



Curve Characteristics









Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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