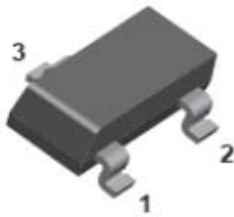


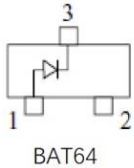


Schottky Barrier Diode

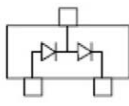


Features

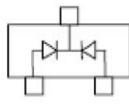
- Epoxy meets UL-94 V-0 flammability rating, halogen-free
- Moisture Sensitivity Level 1
- Low Forward Voltage
- Surface Mount device



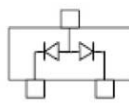
BAT64



BAT64-04



BAT64-05



BAT64-06

Marking

BAT64	63S
BAT64-04	64S
BAT64-05	65S
BAT64-06	66S

■Maximum Rating. ($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Continuous Reverse Voltage	V_R	V	40
Forward Continuous Current, Per Leg	I_F	mA	250
Non-Repetitive Peak Forward Surge Current @ $t<1\text{s}$	I_{FSM}	A	0.6
Total Power Dissipation @ $T_A=25^{\circ}\text{C}$	P_D	mW	200
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	$^{\circ}\text{C/W}$	500
Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +125
Storage temperature range	T_{stg}	$^{\circ}\text{C}$	-55 to +125

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAT64	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT64-04	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT64-05	F2	Approximate 0.008	3000	30000	120000	7" reel
BAT64-06	F2	Approximate 0.008	3000	30000	120000	7" reel



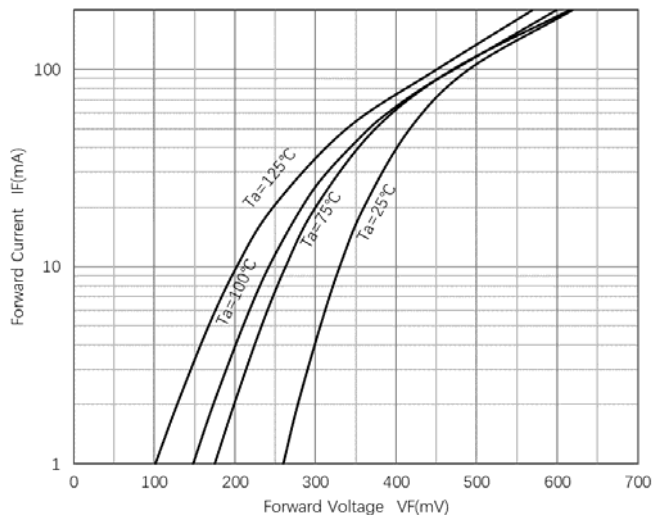
BAT64 THRU BAT64-06

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

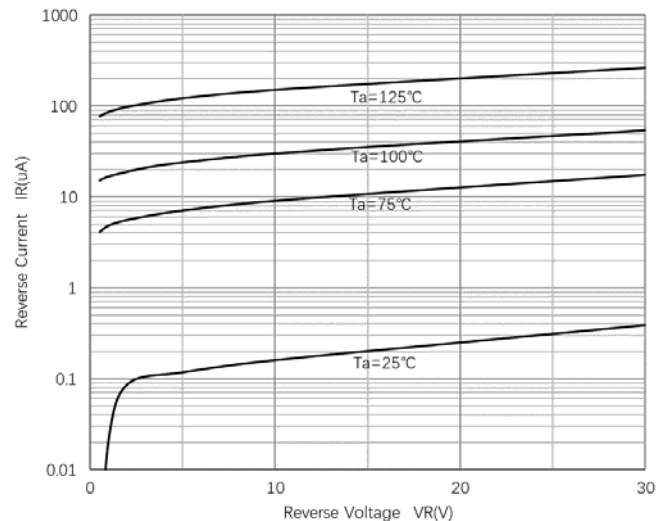
Item	Symbol	Unit	Conditions	Value
Minimum Breakdown Voltage	V _R	V	I _R =0.1mA	40
Maximum Instantaneous Forward Voltage	V _F	mV	I _F =1mA	350
			I _F =10mA	430
			I _F =30mA	520
			I _F =100mA	750
Maximum DC Reverse Current	I _R	uA	V _R =25V	2
Typical Junction Capacitance	C _j	pF	f=1.0MHz, V _R =1.0V	10

■ Typical Characteristics

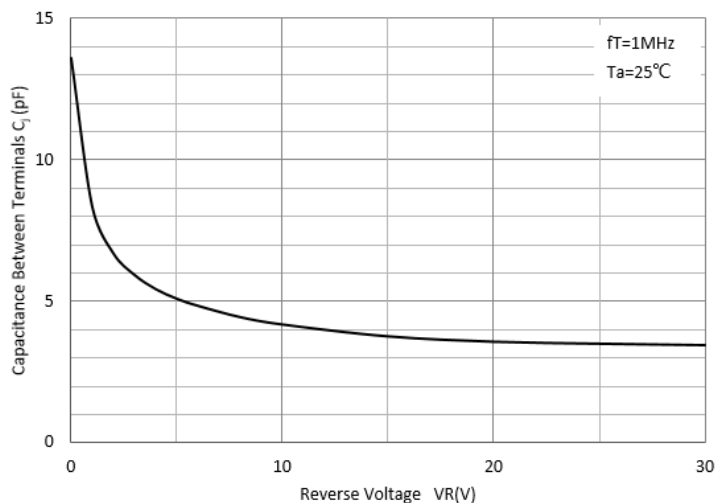
VF-IF



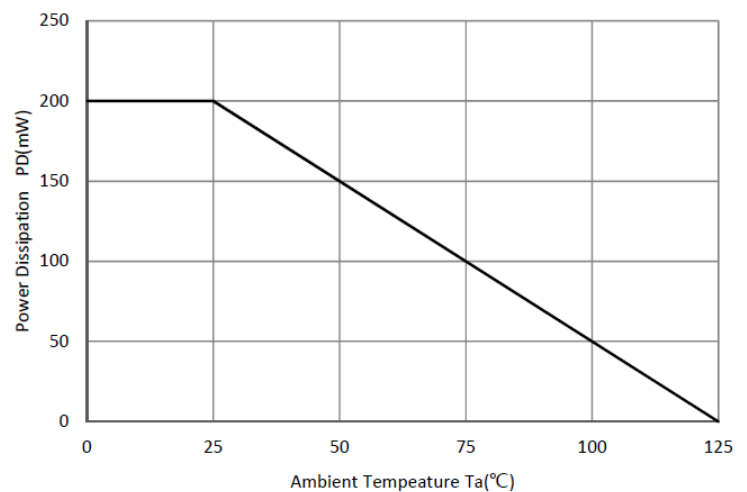
IR-VR



Cj-VR



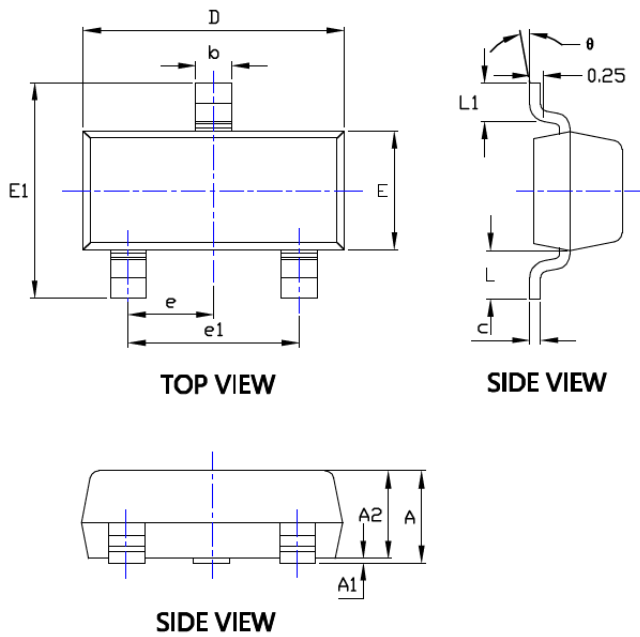
Power Derating Curve





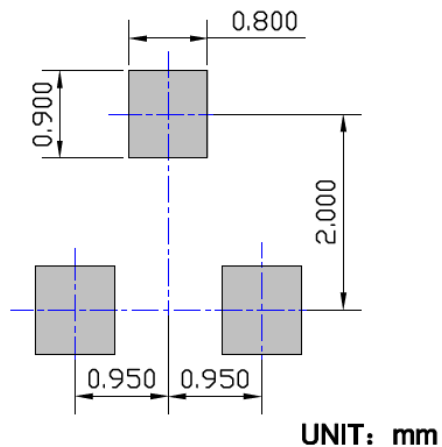
BAT64 THRU BAT64-06

■SOT-23 Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.950TYP	
e1	0.071	0.079	1.800	2.000
L	0.022REF		0.550REF	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

■SOT-23 Soldering Footprint





BAT64 THRU BAT64-06

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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