

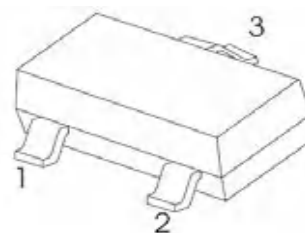


BAT64, BAT64-04, BAT64-05, BAT64-06

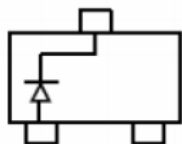
SCHOTTKY BARRIER DIODE

FEATURES

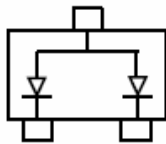
- For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- Integrated diffused guard ring
- Low forward voltage



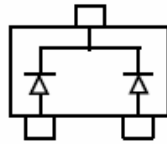
SOT-23



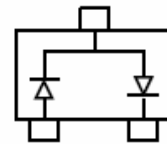
BAT64 MARKING: 67S



BAT64-06 MARKING: 66S



BAT64-05 MARKING: 65S



BAT64-04 MARKING: 64S

Maximum Ratings @T_a=25°C

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	40	V
DC reverse	V _R		
Non-repetitive Peak forward surge current @t=8.3ms	I _{FSM}	0.8	A
Forward current	I _F	0.25	A
Power Dissipation	P _D	250	mW
Thermal Resistance Junction-to-Ambient	R _{ΘJA}	400	°C/W
Operating Junction Temperature Range	T _j	-40 ~ +125	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

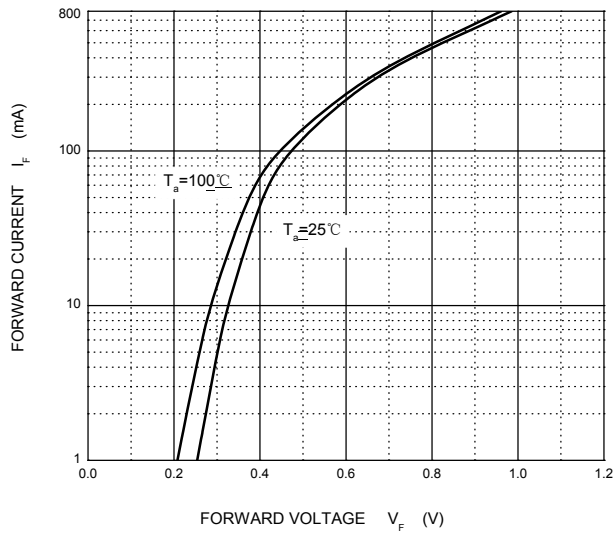
Electrical Ratings @T_a=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse breakdown voltage	V _R	40			V	I _R =10μA
Forward voltage	V _F			350 430 520 750	mV	I _F =1mA I _F =10mA I _F =30mA I _F =100mA
Reverse current	I _R			2	μA	V _R =25V
Capacitance between terminals	C _T		6		pF	V _R =1V, f=1MHz

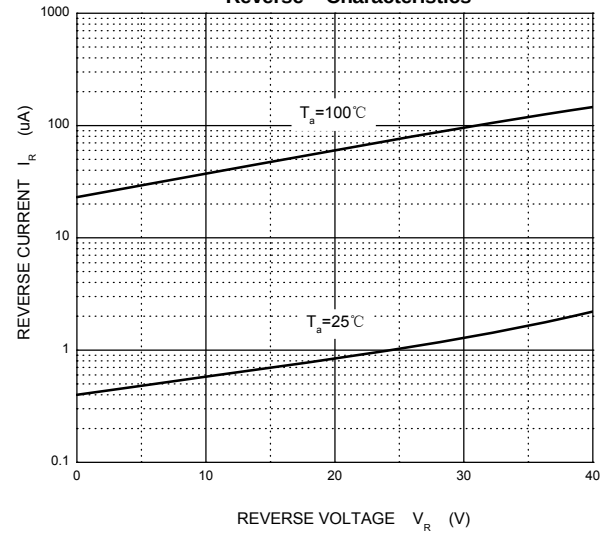


Typical Characteristics

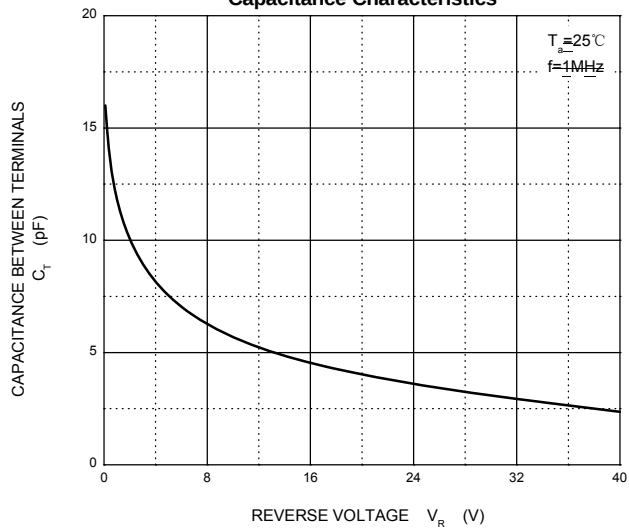
Forward Characteristics



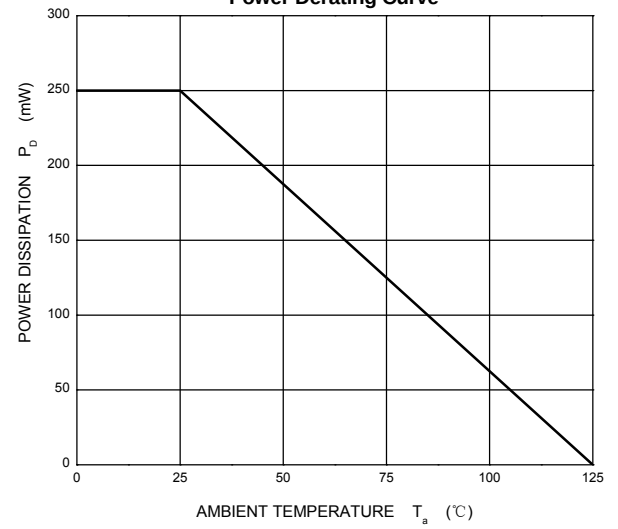
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

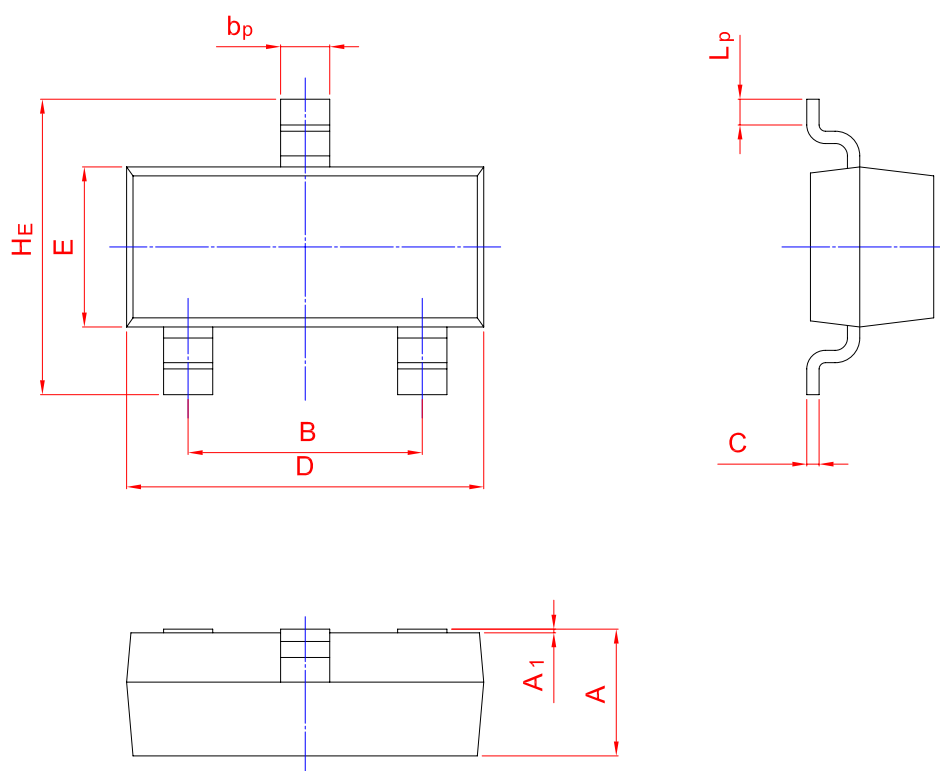




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20