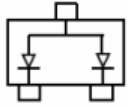
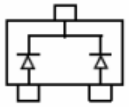
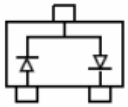
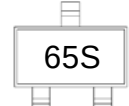
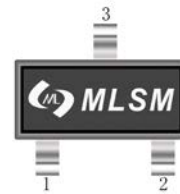


Features

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

BAT64-06	BAT64-05	BAT64-04
		
Marking:66S	Marking:65S	Marking:64S
		



SOT-23 top view



Halogen-Free

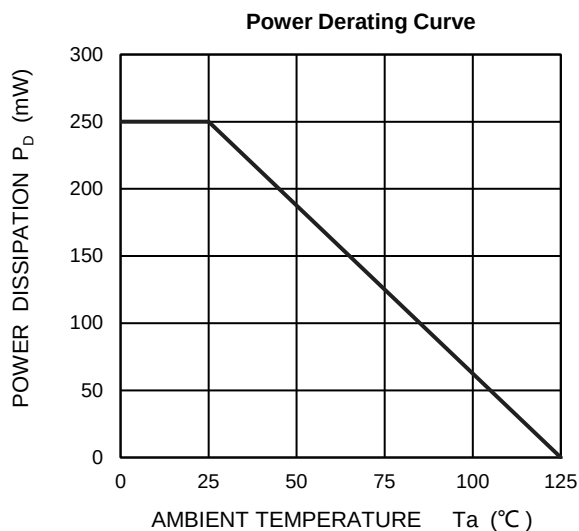
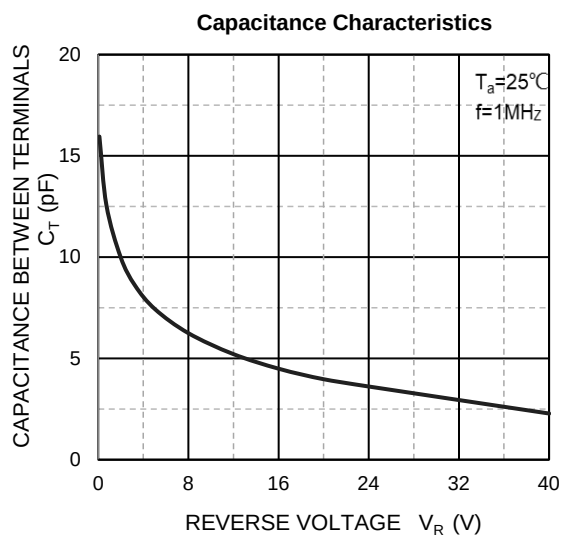
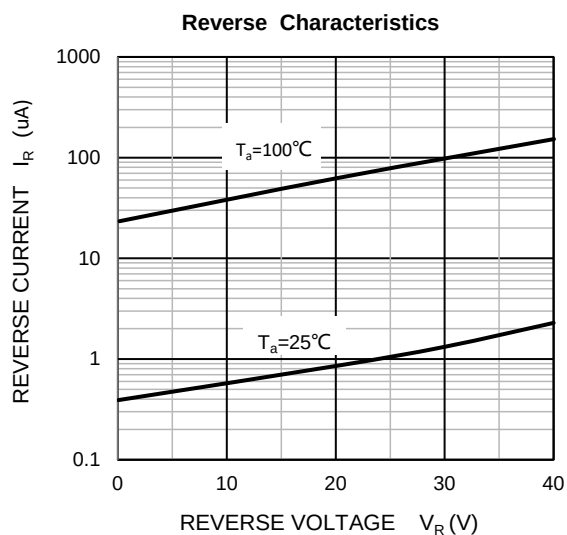
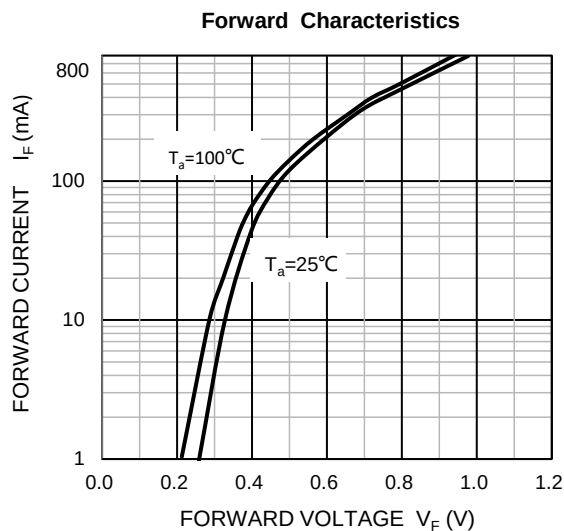
Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	DC reverse	40	V
V_{RM}	Peak Reverse Voltage		
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	0.8	A
I_F	Forward current	0.25	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	$^{\circ}\text{C/W}$
T_J	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V_R	Reverse breakdown voltage	$I_R=10\mu\text{A}$	40	--	--	V
I_R	Reverse current	$V_R=25\text{V}$	--	--	2	μA
V_F	Forward voltage	$I_F=1\text{mA}$	--	--	350	V
		$I_F=10\text{mA}$	--	--	430	V
		$I_F=30\text{mA}$	--	--	520	V
		$I_F=100\text{mA}$	--	--	750	V
C_T	Capacitance between terminals	$V_R=1, f=1\text{MHz}$	--	6	--	pF

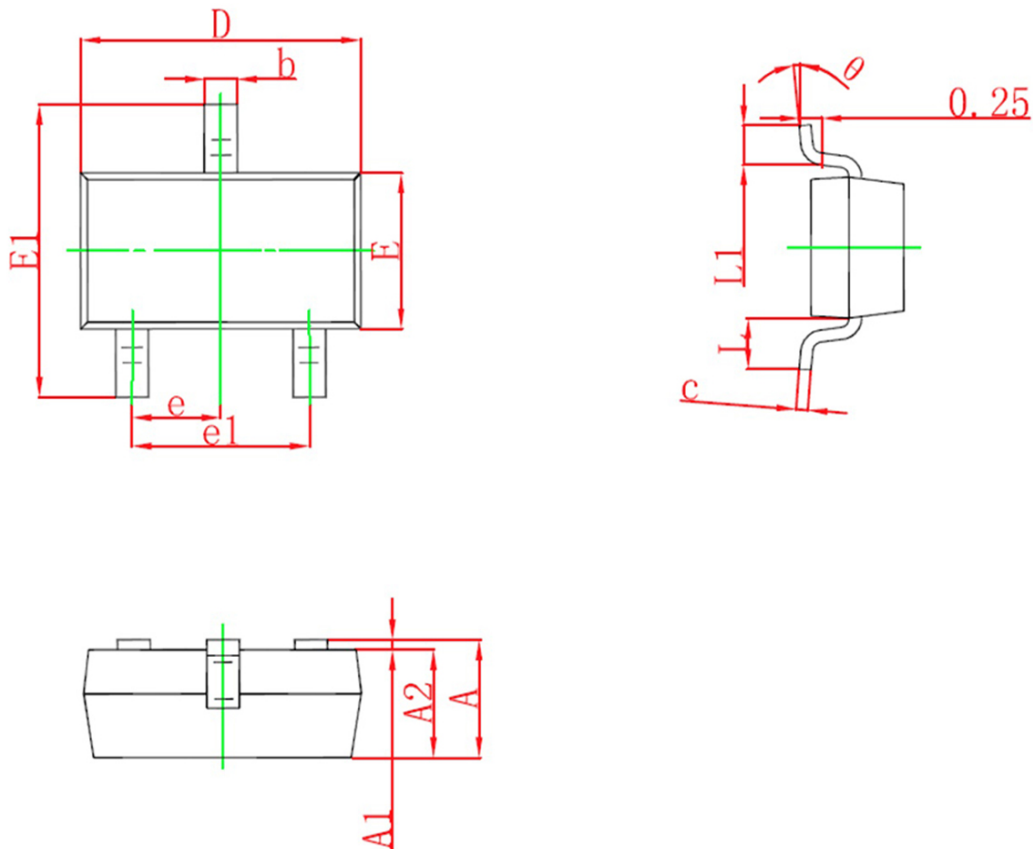
Typical Operating Characteristics



Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAT64-04	SOT-23	64S	3,000	45,000	180,000	7"reel
BAT64-05	SOT-23	65S	3,000	45,000	180,000	7"reel
BAT64-06	SOT-23	66S	3,000	45,000	180,000	7"reel

SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°