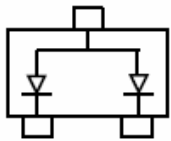
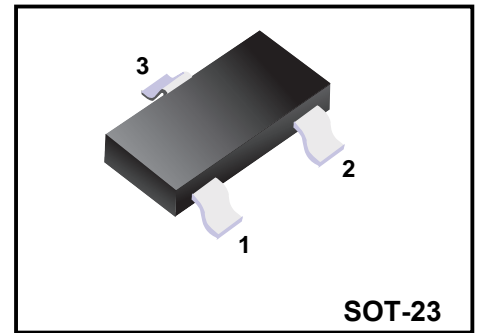


Plastic-Encapsulate Diodes

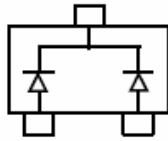
SCHOTTKY BARRIER DIODE

FEATURES

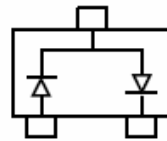
- ◆ For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- ◆ Integrated diffused guard ring
- ◆ Low forward voltage



BAT64-06 MARKING:66S



BAT64-05 MARKING:65S



BAT64-04 MARKING: 64S

BAT64-06	BAT64-05	BAT64-04

Solid dot = Green molding compound device, if none, the normal device.

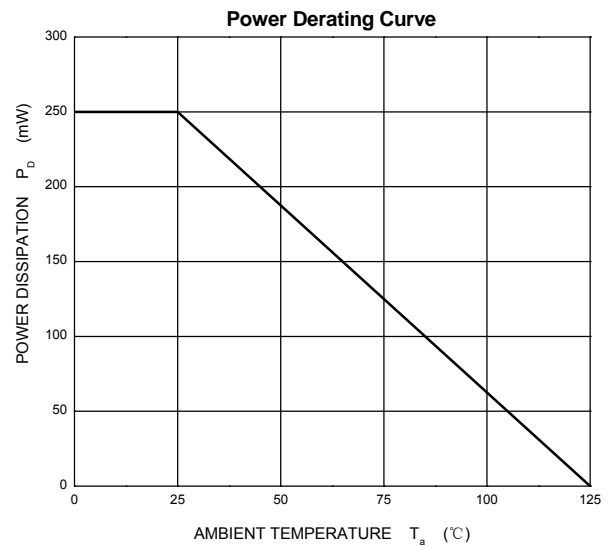
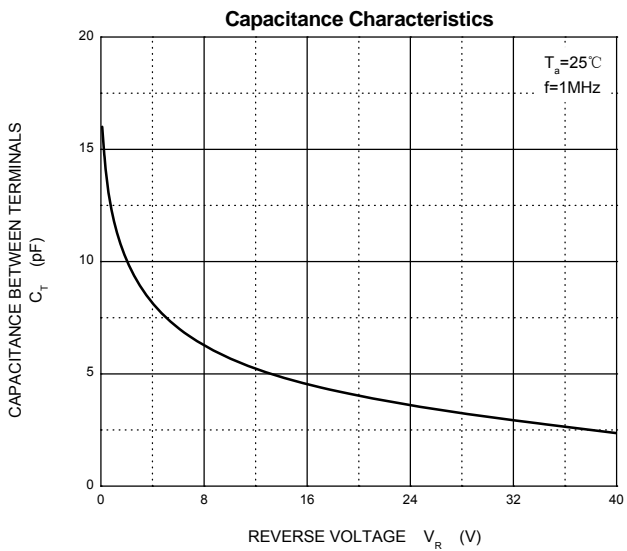
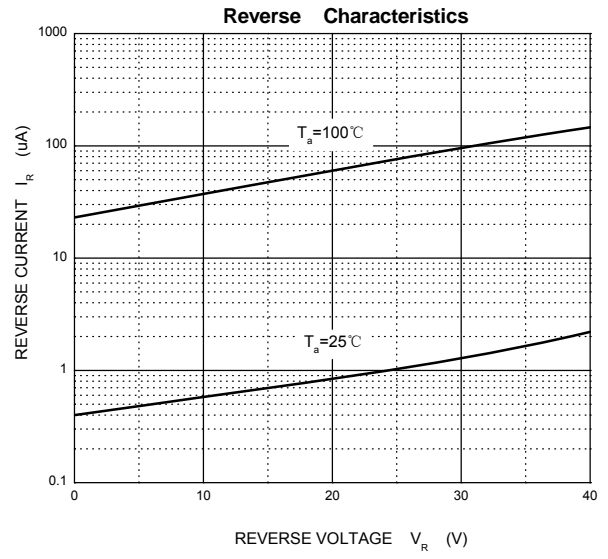
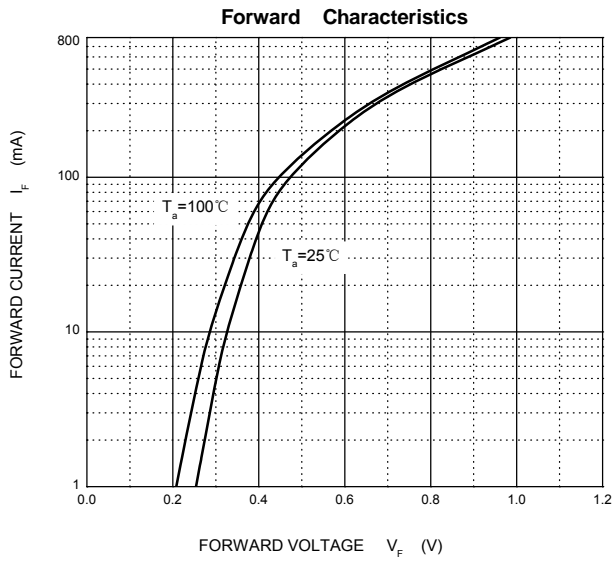
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limits	Unit
Peak reverse voltage DC reverse	V_{RM} V_R	40	V
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	$R_{\theta JA}$	400	°C/W
Operating Junction Temperature Range	T_j	-40 ~ +125	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Electrical Ratings @Ta=25°C

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

Typical Characteristics



Ordering information

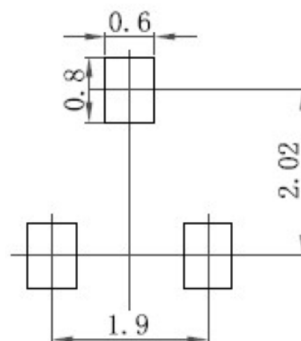
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. 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 with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.