



Micro Commercial Components



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# BAT64-04 BAT64-05 BAT64-06

## Features

- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- For low-loss, fast-recovery, meter protection, bias isolation and clamping applications
- Integrated diffused guard ring
- Low forward voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

Symbol	Parameter	Rating	Unit
$V_{RM}$	Peak Reverse Voltage	40	V
IF	Peak Forward Current	0.25	A
$I_{FSM}$	Forward Surge Current, $t_p=10ms$	0.8	A
Pd	Power Dissipation, $T_c=25^\circ C$	250	mw
$T_J$	Junction Temperature	150	$^\circ C$
$T_{STG}$	Storage Temperature	-55 to +125	$^\circ C$
Rthja	Thermal Resistance Junction to Ambient	400	$^\circ C/W$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage ( $I_F=1mA_{dc}$ )	---	---	350	mVdc
	( $I_F=10mA_{dc}$ )	---	---	430	
	( $I_F=30mA_{dc}$ )	---	---	520	
	( $I_F=100mA_{dc}$ )	---	---	750	
$I_R$	Reverse Current ( $V_R=25V_{dc}$ )	---	---	2	$\mu A_{dc}$
$C_T$	Diode Capacitance ( $V_R=5V$ , $f=1MHz$ )	---	6	---	pF

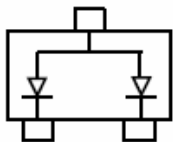
## Small Signal Schottky Diode

### SOT-23

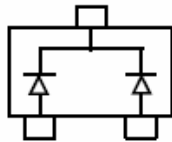
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

### Suggested Solder Pad Layout

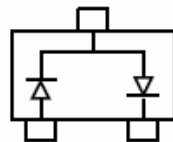
inches mm



BAT64-06 MARKING:66S

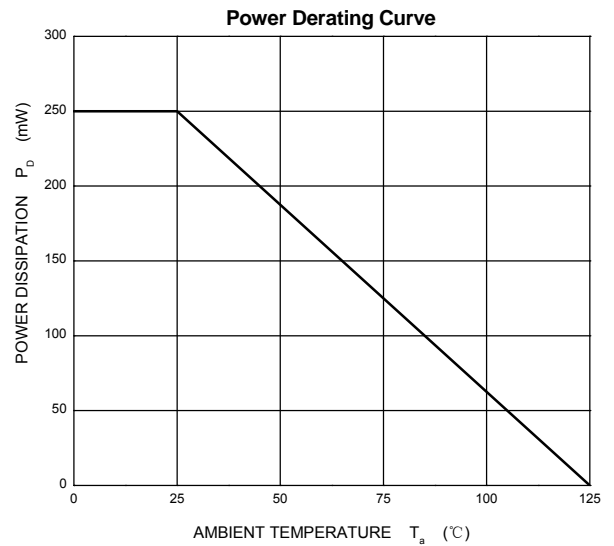
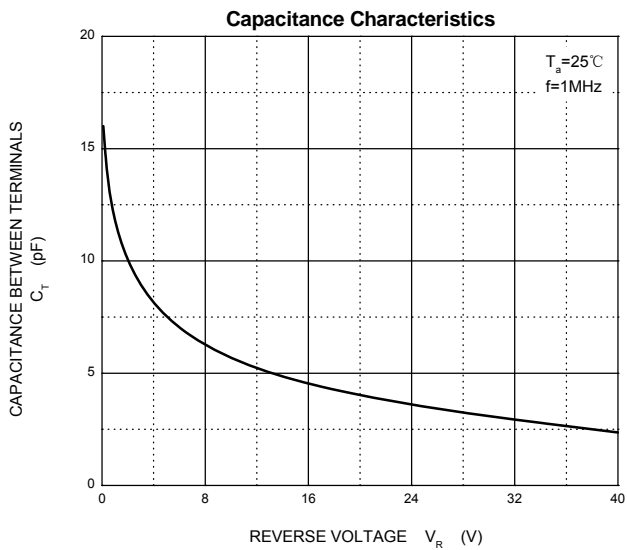
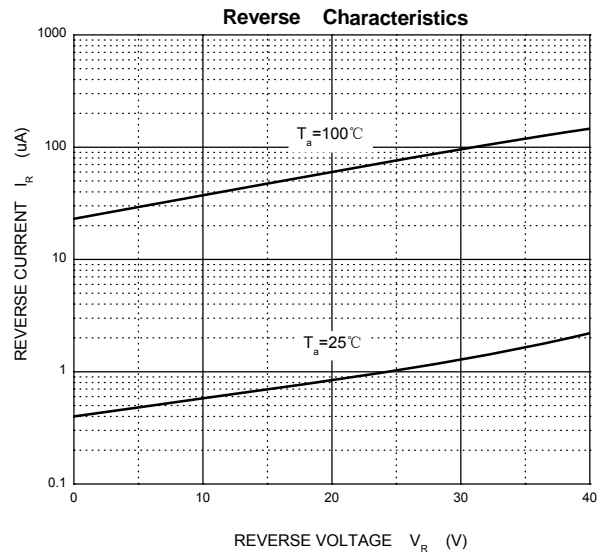
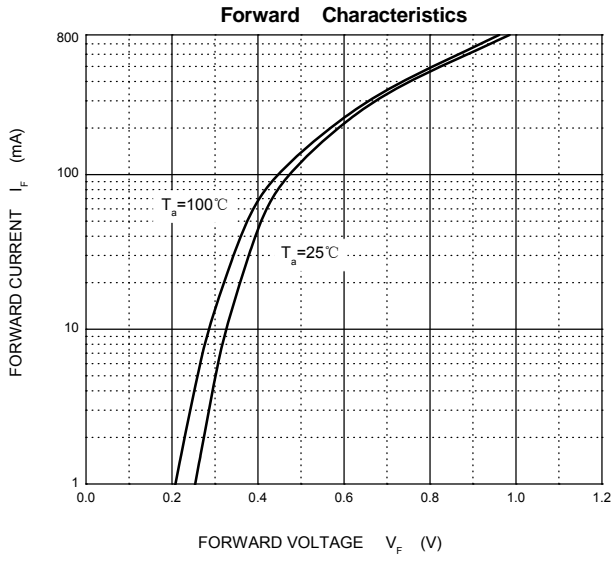


BAT64-05 MARKING:65S



BAT64-04 MARKING: 64S

## Typical Characteristics





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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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