

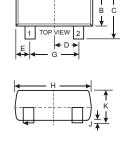
BAS40/-04/-05/-06

SURFACE MOUNT SCHOTTKY BARRIER DIODES

Features

- Low forward voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection

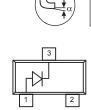
DEVICE	MA	TYPE	
	1	2	ITPE
BAS40	43	K43	Single
BAS40-04	44	K44	Dual
BAS40-05	45	K45	Dual
BAS40-06	46	K46	Dual



SOT-23				
Dim	Min	Max		
Α	0.37	0.51		
В	1.20	1.40		
С	2.30	2.50		
D	0.89	1.03		
Е	0.45	0.60		
G	1.78	2.05		
Н	2.80	3.00		
J	0.013	0.10		
K	0.903	1.10		
L	0.45	0.61		
М	0.085	0.180		
α	0°	8°		
All Dimensions in mm				

Maximum Ratings @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Limit	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	l _F	200	mA
Repetitive peak forward surge current at Pulse width=1 second	I _{FSM}	600	mA
Junction temperature	Tj	150	℃
Storage temperature range	T _{stg}	- 55 to + 150	°C







BAS40



Electrical Characteristics @ TA = 25°C unless otherwise specified

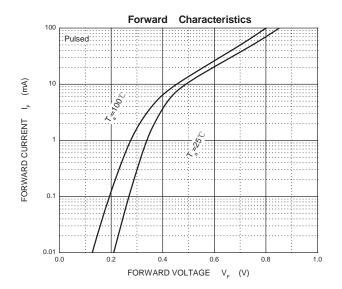
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage				
at $I_F = 1 \text{ mA}$	V _F	-	380	mV
at I _F = 40 mA	V _F	-	1000	mV
Reverse Current			000	
at V _R = 30 V	I _R	-	200	nA
Reverse Breakdown Voltage	\/	40		.,
at I _R = 10 μA	$V_{(BR)R}$	40	-	V
Reverse Recovery Time	4		_	
from $I_F = 10$ mA through $I_R = 10$ mA to $I_R = 1$ mA	t _{rr}	-	5	ns
Total Capacitance	Ст		_	_
at $V_R = 0 V$, $f = 1 MHz$	UT UT	-	5	pF

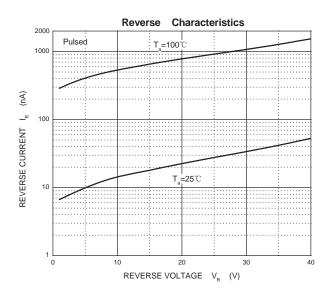


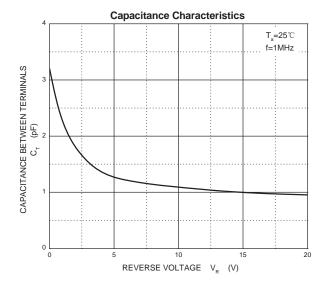
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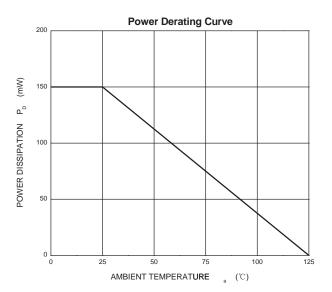
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TYPICAL TRANSIENT CHARACTERISTICS









http://www.hc-semi.com



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