



Crownpo Technology

LIZ Electronics(Kunshan)

APPROVAL SHEET

CUSTOMER: _____

PART NO : BAS40/04/05/06W Series _____

DESCRIPTION: SMD SCHOTTKY BARRIER DIODE _____

Agent : _____

DATE: 15-July-2013 _____

CUSTOMER APPROVED

WRITTEN	CHECKED	APPROVED
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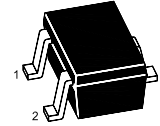


BAS40W / -04W / -05W / -06W

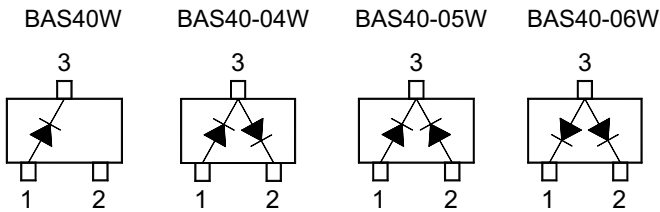
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- * Low forward voltage
- * Fast switching



SOT-323 Plastic Package



- BAS40W Marking Code: **43**
- BAS40-04W Marking Code: **44**
- BAS40-05W Marking Code: **45**
- BAS40-06W Marking Code: **46**

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current (at $t_p \leq 8.3\text{ ms}$)	I_{FSM}	600	mA
Power Dissipation	P_d	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$	V_F	-	0.38	V
at $I_F = 40\text{ mA}$	V_F	-	1	V
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_{(BR)R}$	40	-	V
Reverse Current at $V_R = 30\text{ V}$	I_R	-	200	nA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$, $I_{rr} = 0.1\text{ }I_R$	t_{rr}	-	5	ns

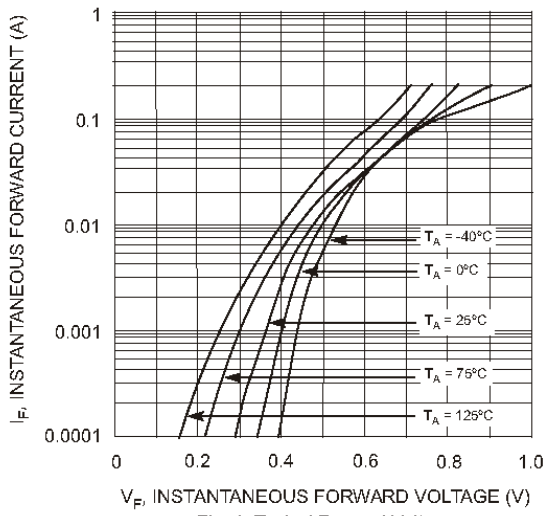


Fig. 1 Typical Forward Voltage

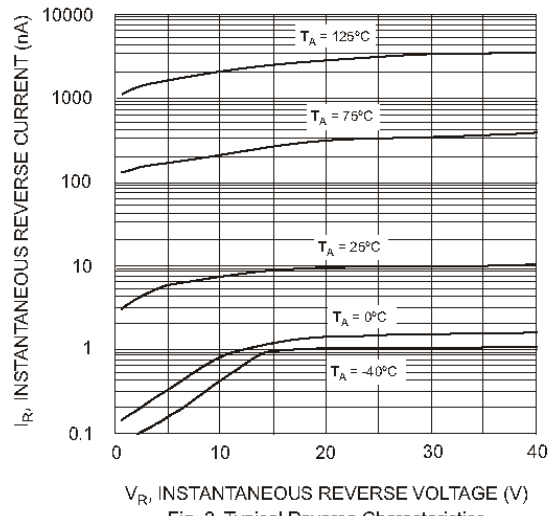


Fig. 2 Typical Reverse Characteristics

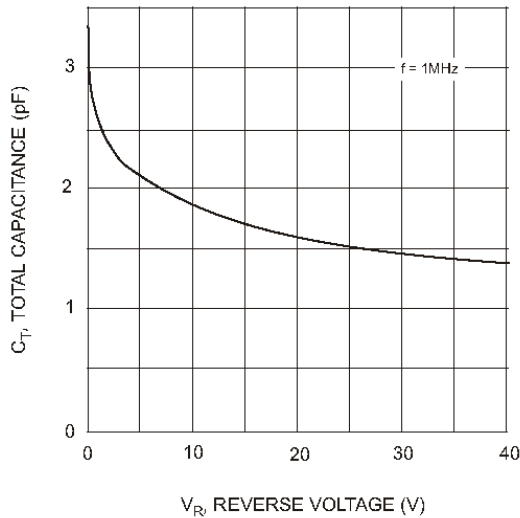


Fig. 3 Typical Capacitance

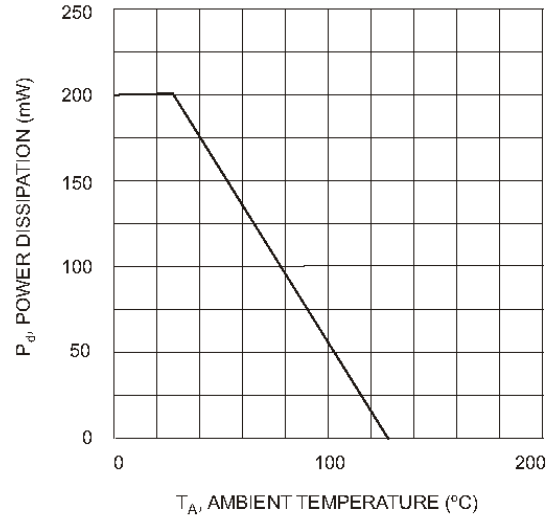


Fig. 4 Power Derating Curve, Total Package