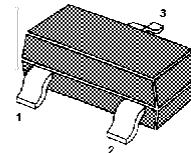


SB07-03C**30V, 700mA Rectifier****Shottky Barrier Diode****Plastic Package****Applications**

- High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (t_{rr} max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

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Marking: J4

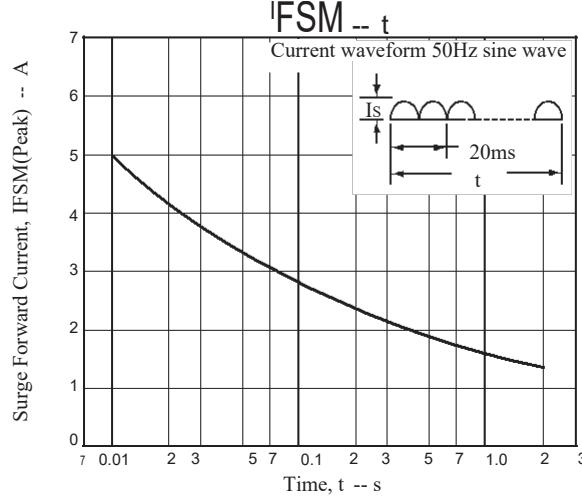
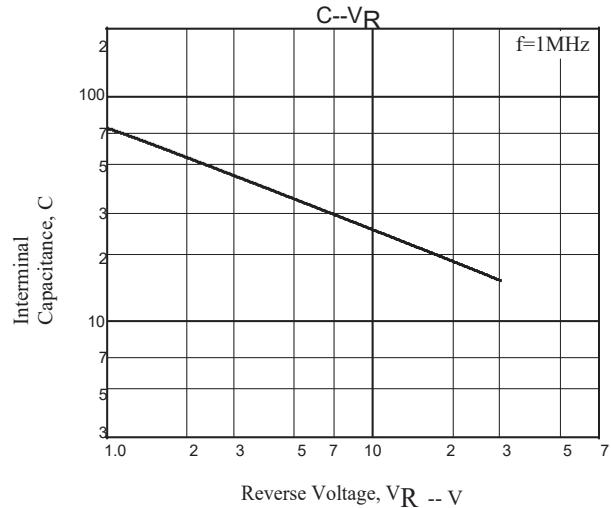
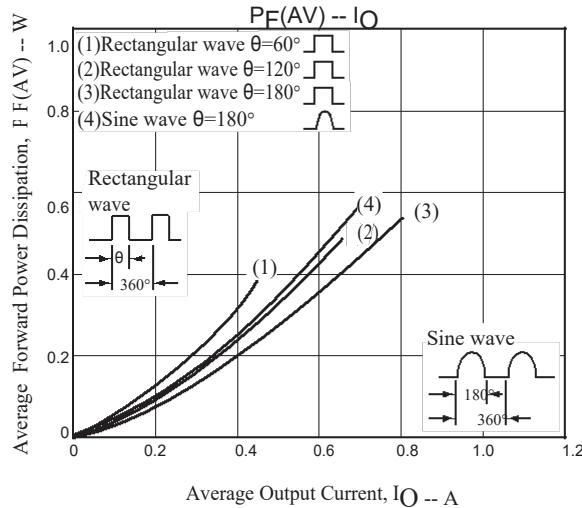
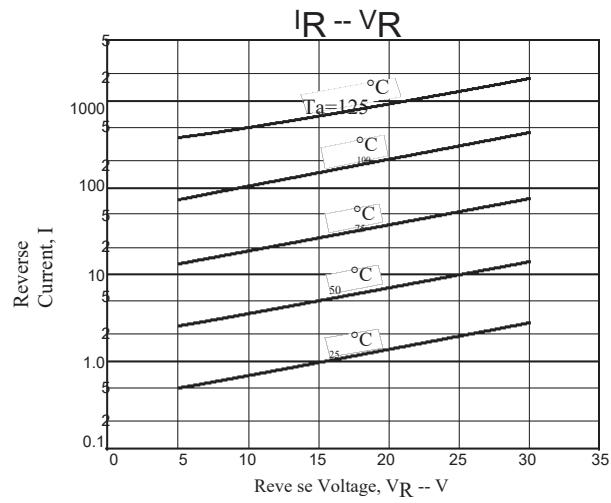
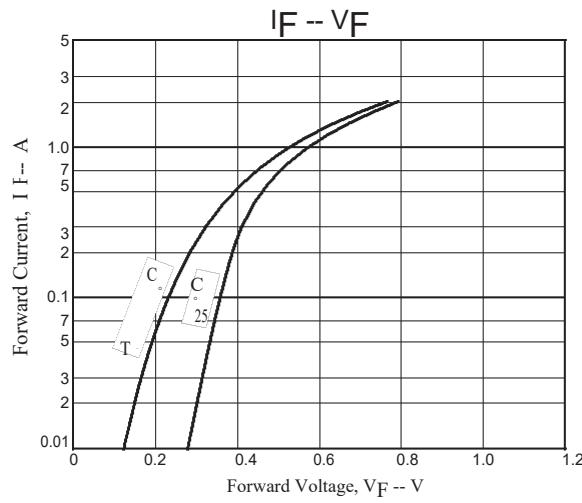
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		700	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	5	A
Junction Temperature	T_j		-55 to +125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$ I_R =300\mu\text{A}$	30			V
Forward Voltage	V_F	$ I_F =700\text{mA}$			0.55	V
Reverse Current	$ I_R $	$V_R=15\text{V}$			80	μA
Interterminal Capacitance	C	$V_R=10\text{V}, f=1\text{MHz}$		25		pF
Reverse Recovery Time	t_{rr}	$ I_F = I_R =100\text{mA}$, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)				420	°C/W
	Rthj-a(2)	Mounted on Cu-foil area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board			330	°C/W

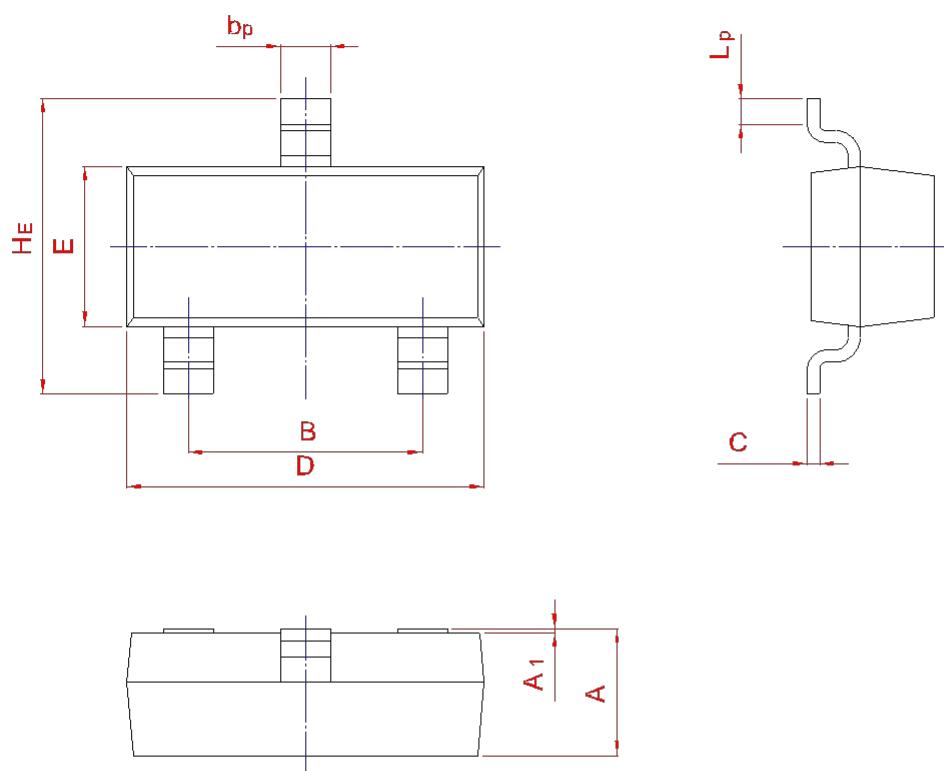
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b _p	C	D	E	H _E	A ₁	L _p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20