



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

BAT60B SCHOTTKY DIODES

SOD-323

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FEATURES

- High current rectifier Schottky diode with low VF drop
- Low voltage, low inductance
- For power supply
- For detection and step-up-conversion

MARKING: W5

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	10	V
Forward current	I _F	3	A
Forward surge Current t _p =10ms	I _{FSM}	5	A
Power dissipation T _C =25°C	P _{tot}	350	mW
Junction temperature	T _J	150	°C
Storage temperature	T _{STG}	-65~+150	°C

Electrical Ratings @T_A=25°C

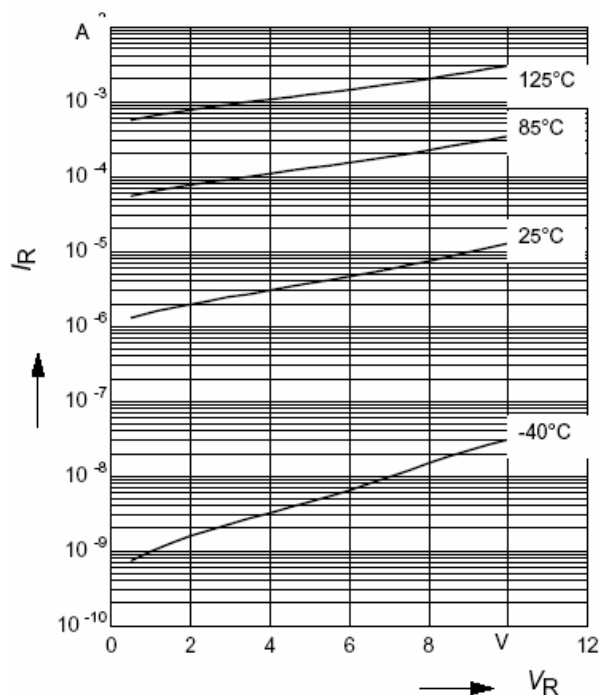
Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V _F			300 380 500 600	mV	I _F =10mA I _F =100mA I _F =500mA I _F =1000mA
Reverse current	I _R			15 25	μA	V _R =5V V _R =8V
Capacitance between terminals	C _T			30	pF	V _R =5V, f=1MHz

Typical Characteristics

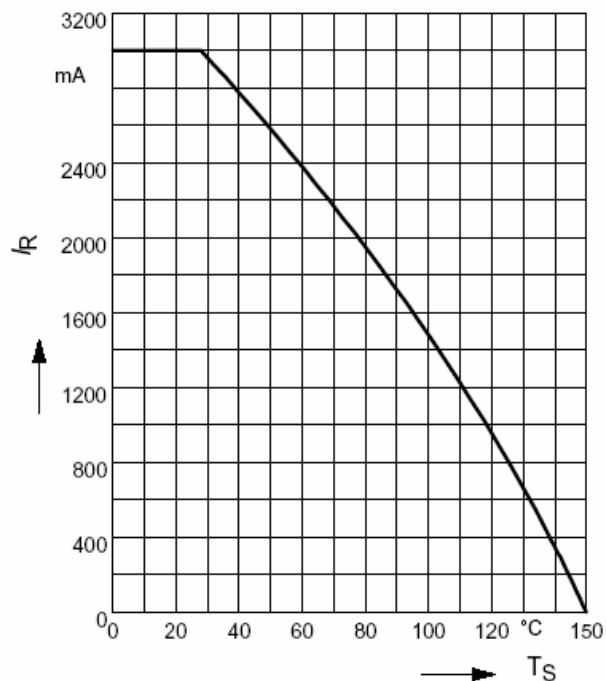
BAT60B

Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$

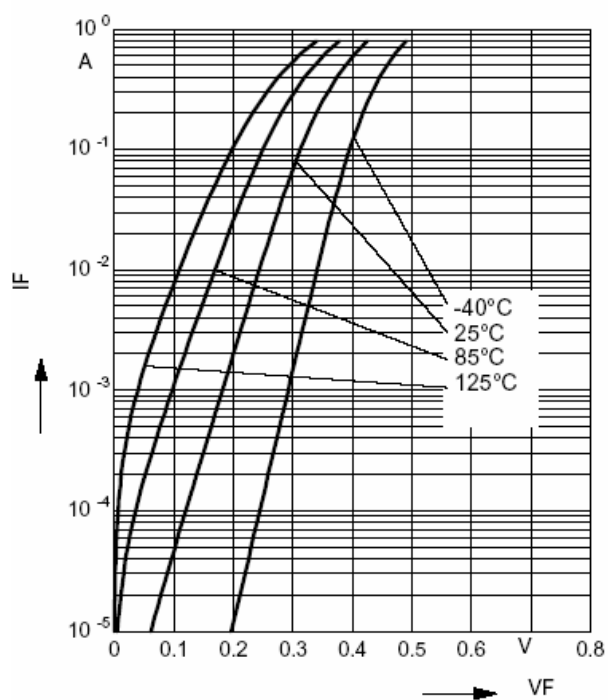


Forward current $I_F = f(T_S)$



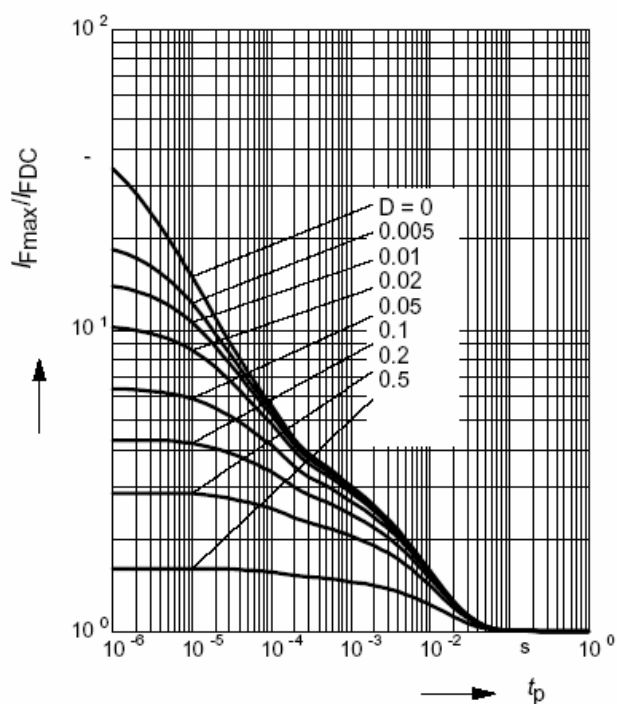
Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$



Permissible Pulse Load

$I_{F\text{max}}/I_{FDC} = f(t_p)$



Permissible Puls Load $R_{thJS} = f(t_p)$

