JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

SOD-323

BAT60B SCHOTTKY DIODES

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℃

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℃	P_{tot}	350	mW
Junction temperature	T_J	150	℃
Storage temperature	T_{STG}	-65~+150	℃

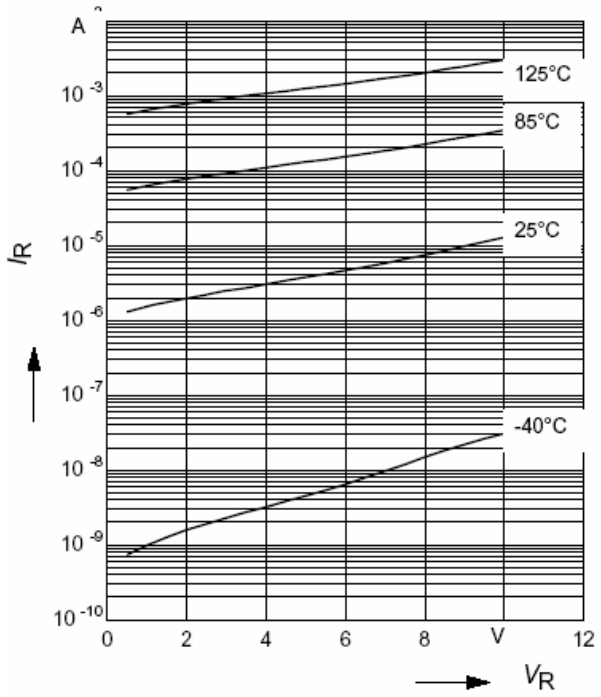
Electrical Ratings @T_A=25℃

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

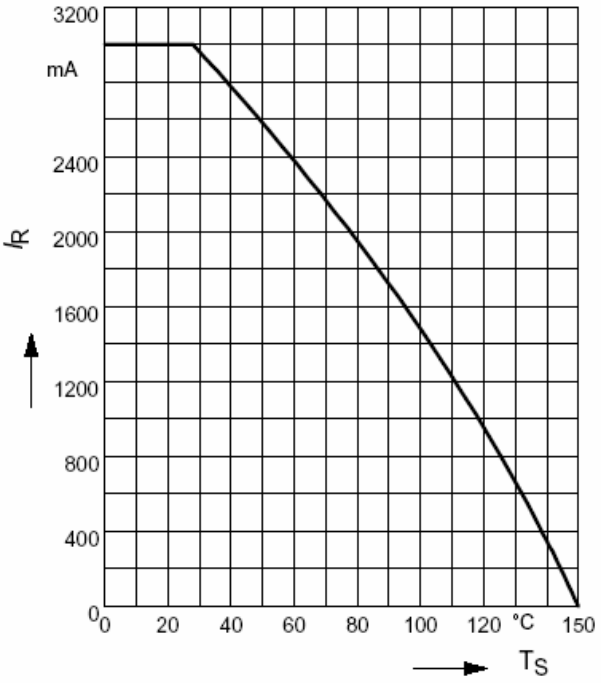
Typical Characteristics

Reverse current $I_R = f(V_R)$

T_A = Parameter

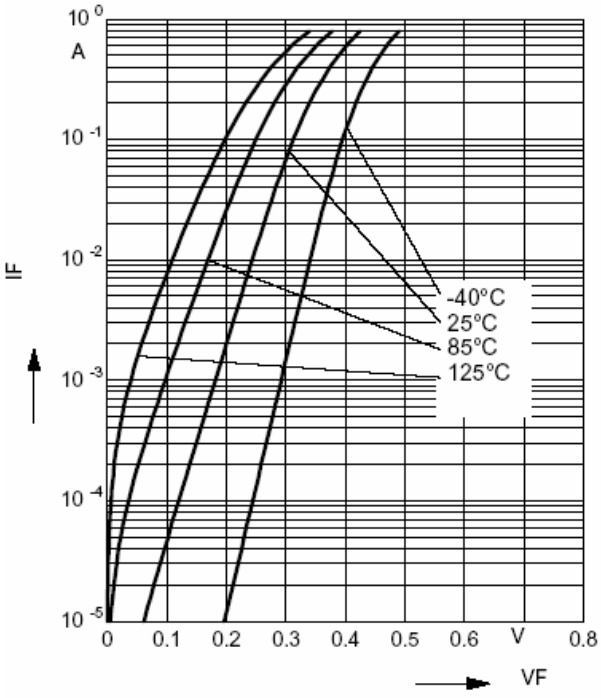


Forward current $I_F = f(T_S)$



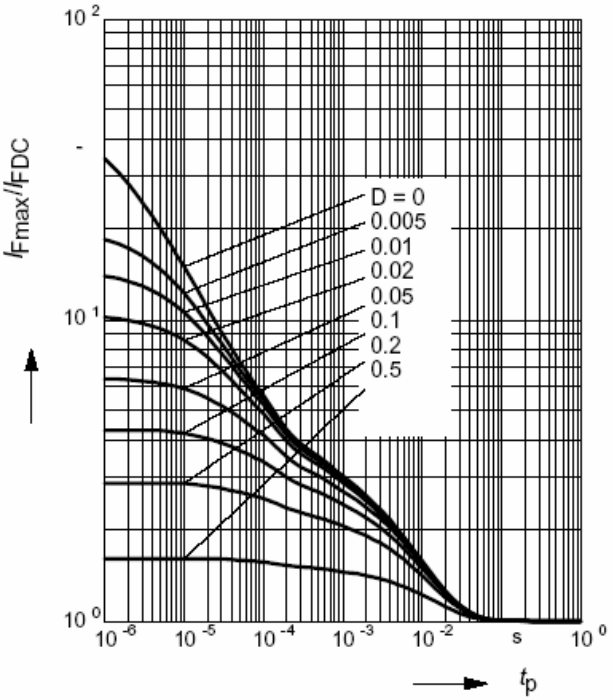
Forward current $I_F = f(V_F)$

T_A = Parameter



Permissible Pulse Load

$I_{Fmax}/I_{FDC} = f(t_p)$



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