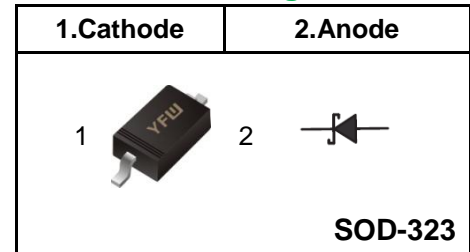


■ Schottky Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance

Pinning



Marking Code

BAT60A	S3
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Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _{RM}	10	V
Forward Current	I _F	3	A
Peak Forward Surge Current (t≤10ms)	I _{FM}	5	
Power Dissipation TS≤28°C	P _d	1350	mW
Thermal Resistance Junction to Point ¹	R _{θJS}	≤90	K/W
Junction Temperature	T _J	150	°C
Operating Temperature Range	T _{OP}	-55 to 85	
Storage Temperature range	T _{stg}	-55 to 150	

NOTES:

1.For calculation of RthJA please refer to Application Note Thermal Resistance

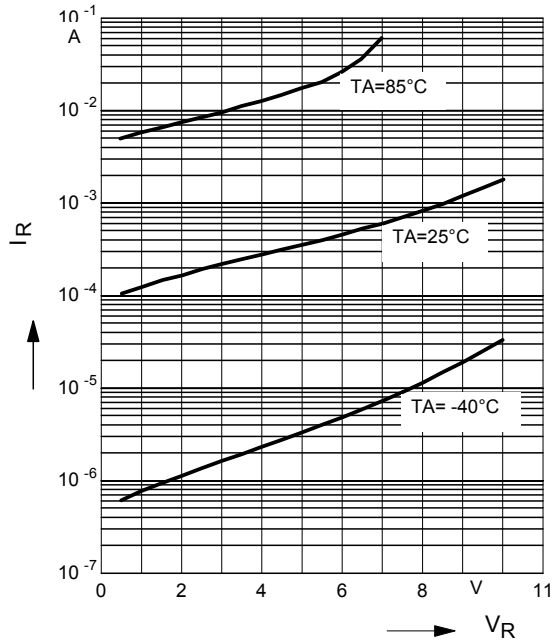
Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R = 100 uA	10			V
Forward voltage	V _F	I _F = 10 mA			0.15	
		I _F = 100 mA			0.23	
		I _F = 1000mA			0.37	
Reverse voltage leakage current	I _R	V _R = 5 V			1	mA
		V _R = 8 V			2.6	
		V _R =5 V, T _A =80 °C		18		
Junction capacitance	C _j	V _R = 5 V, f= 1 MHz			35	pF

Typical Characteristics

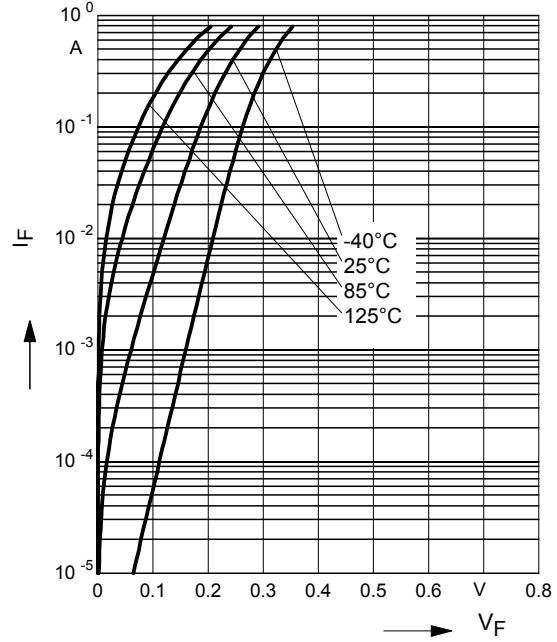
Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$



Forward current $I_F = f(V_F)$

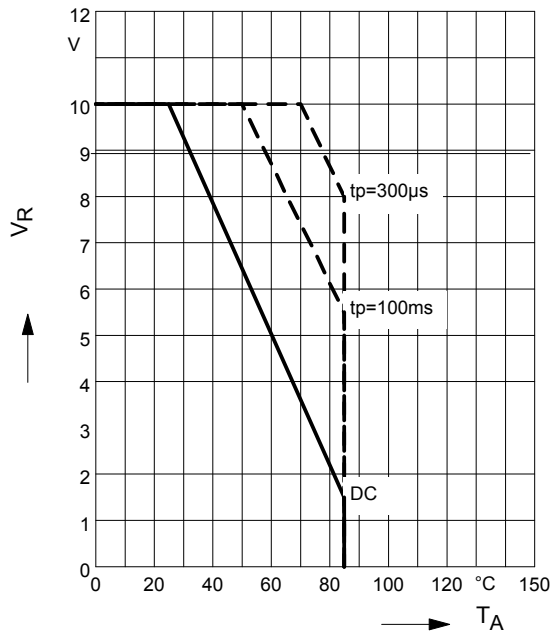
$T_A = \text{Parameter}$



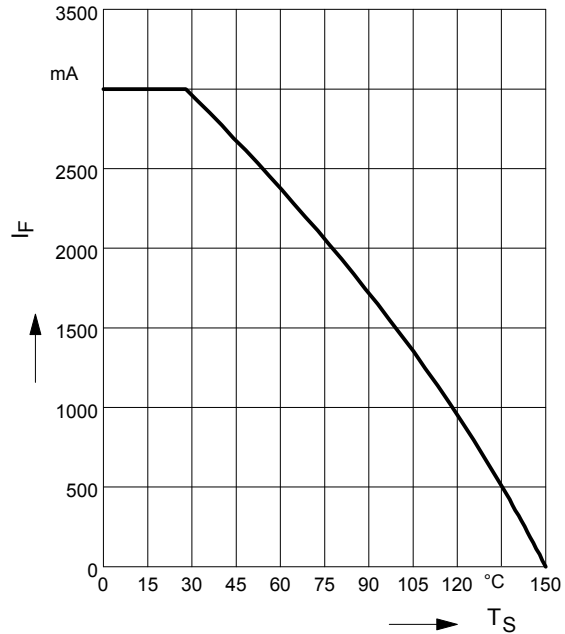
Permissible Reverse voltage $V_R = f(T_A)$

$t_p = \text{Parameter}$; duty cycle < 0.01

Device mounted on PCB with $R_{th} = 160 \text{ K/W}$

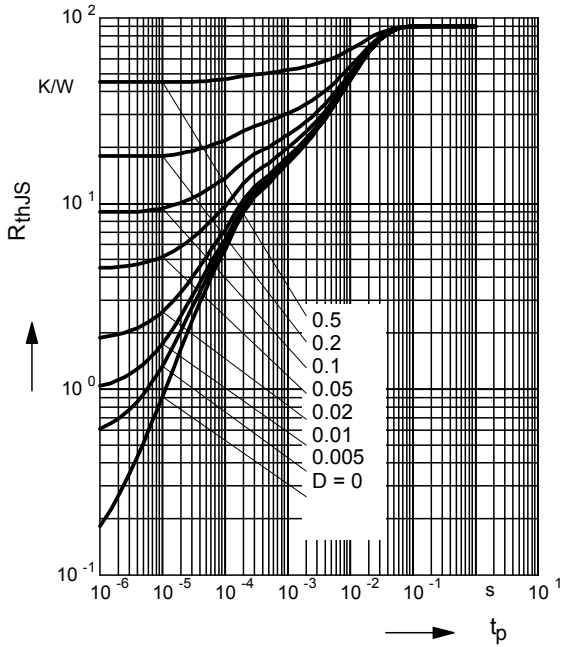


Forward current $I_F = f(T_S)$



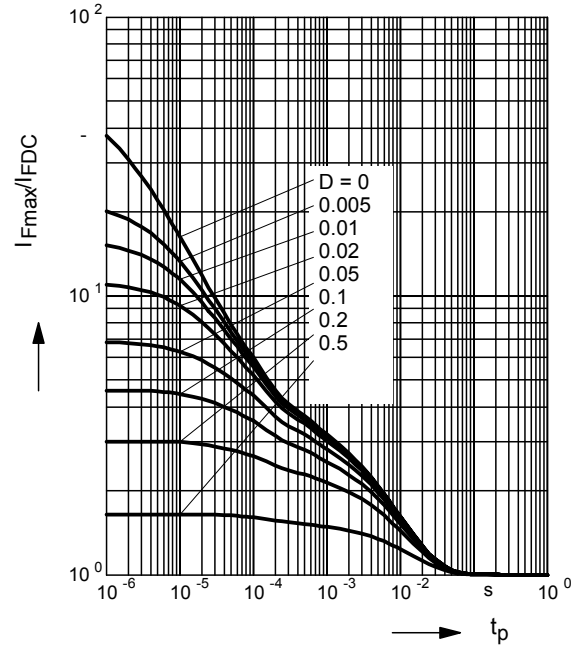
Typical Characteristics

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



Permissible Pulse Load

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



Ordering information

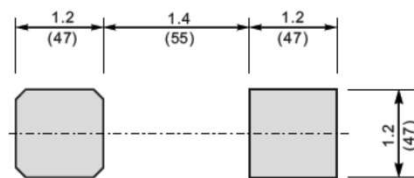
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



Unit: $\frac{mm}{(mil)}$

Disclaimer

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