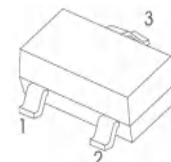


RB400D SCHOTTKY BARRIER DIODE

FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

MARKING: D3A



SOT-23

Maximum Ratings @Ta=25°C

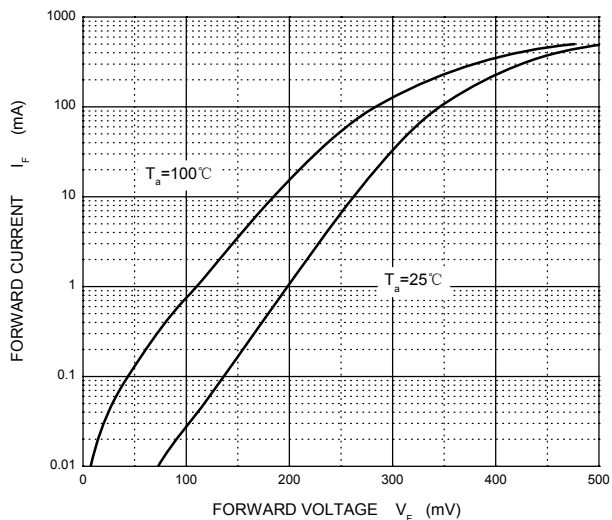
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse	V_R	40	V
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	3	A
Mean rectifying current	I_o	0.5	A
Power dissipation	P_D	250	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	400	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55~+150	°C

Electrical Ratings (Ta=25°C unless otherwise specified)

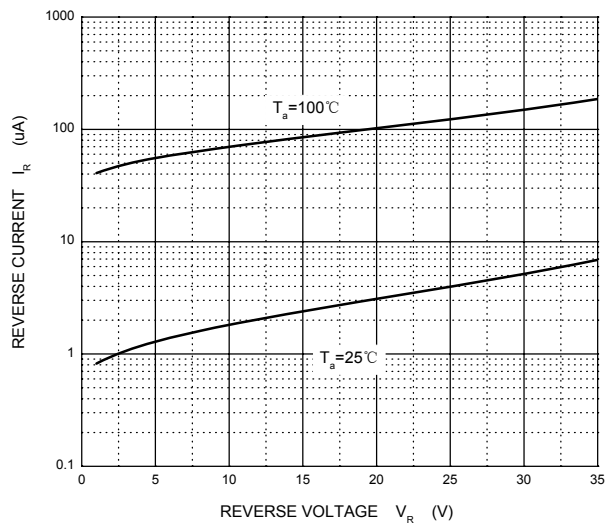
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	40			V	$I_R=100\mu A$
Forward voltage	V_F			0.55	V	$I_F=0.5A$
Reverse current	I_{R1}			50	μA	$V_R=30V$
	I_{R2}			30	μA	$V_R=10V$
Capacitance between terminals	C_{T1}		125		pF	$V_R=0V, f=1MHz$
	C_{T2}		20		pF	$V_R=10V, f=1MHz$



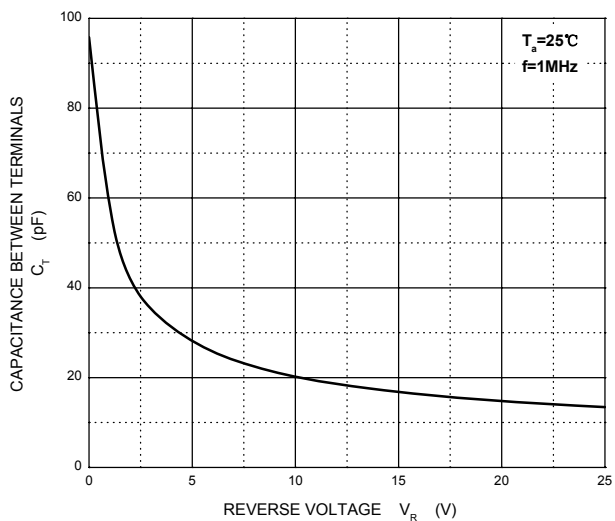
Forward Characteristics



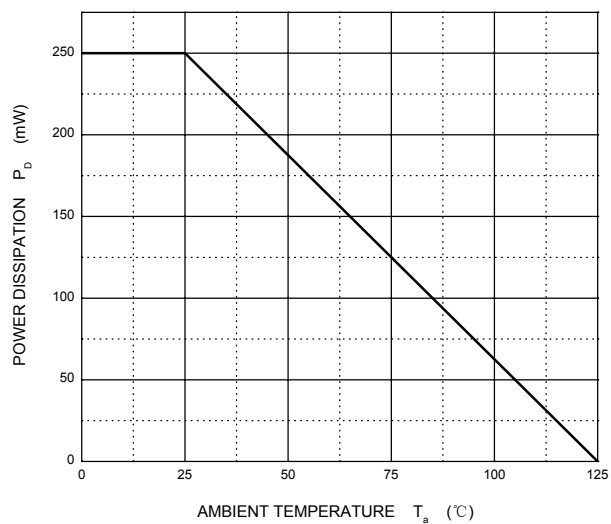
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

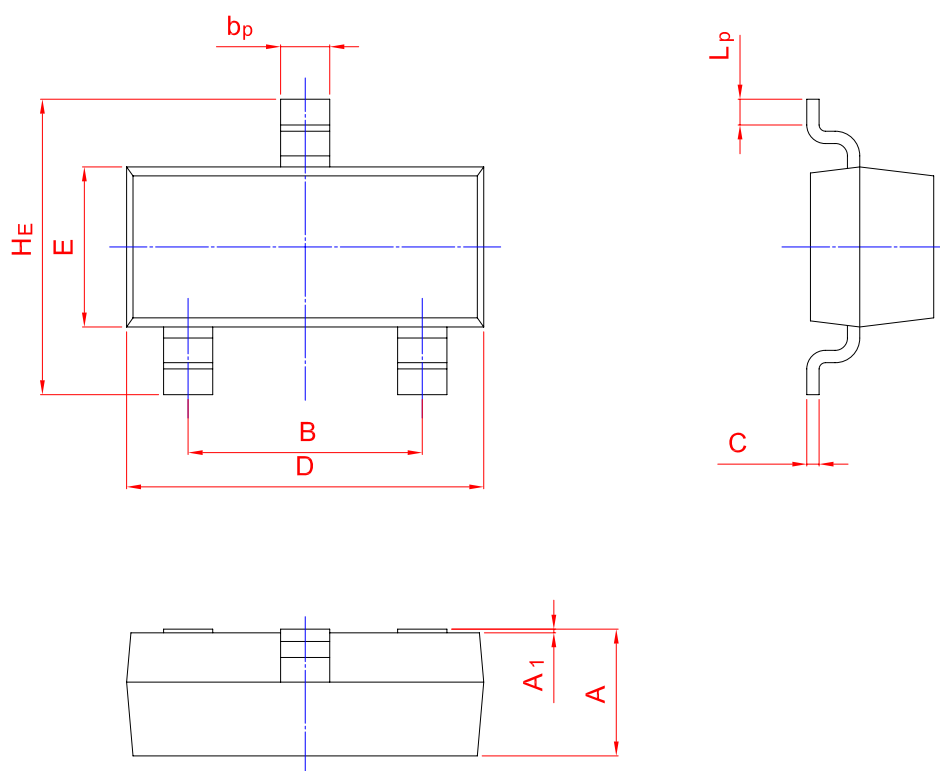




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
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