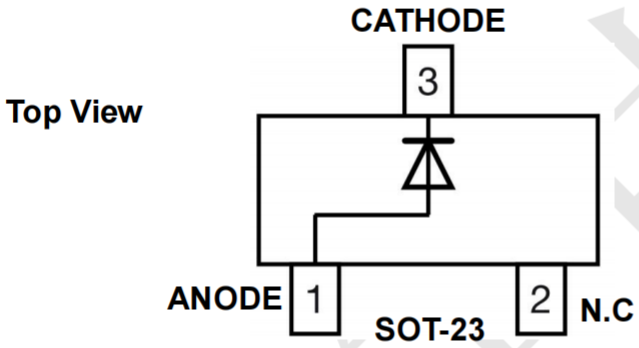
Features

- General rectification
- Low V_F; Low I_R
- High reliability

Applications

- surface mount schottky barrier rectifier

Pin Configuration



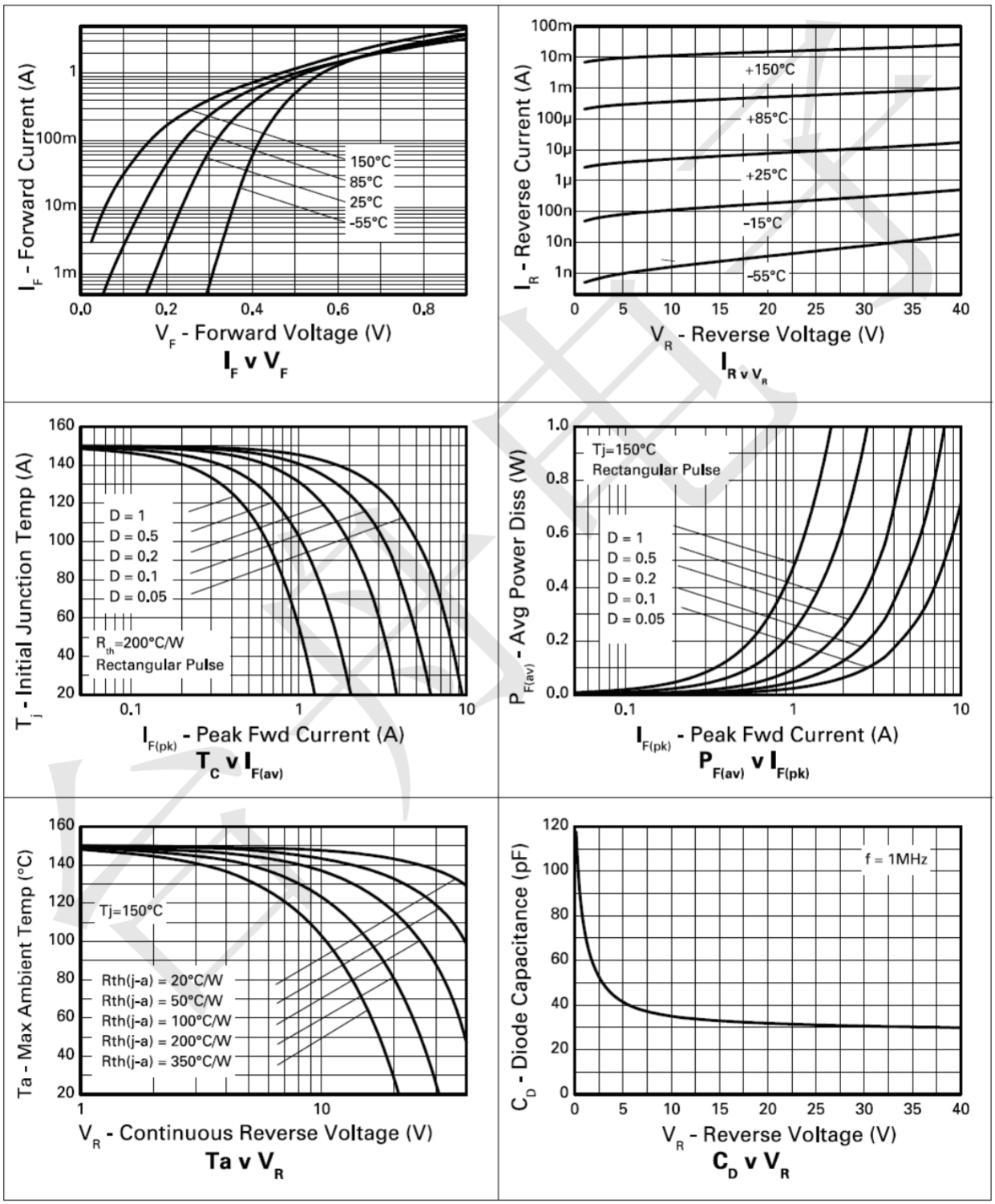
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	V_R	30	V
Forward Current	I_F	1	A
Peak Repetitive Forward Current Rectangular Pulse Duty Cycle	I_{FPK}	1.88	A
Non Repetitive Forward Current t≤100us t≤10ms	I_{FSM}	22 6.4	A A
Power Dissipation	P_d	625	mW
,Junction to ambient (a)	$R_{\theta JA}$	200	℃/W
Junction to ambient (b)	$R_{\theta JA}$	149	℃/W
Junction temperature	T_j	150	℃
Storage temperature range	T_{stg}	-55 to +150	℃

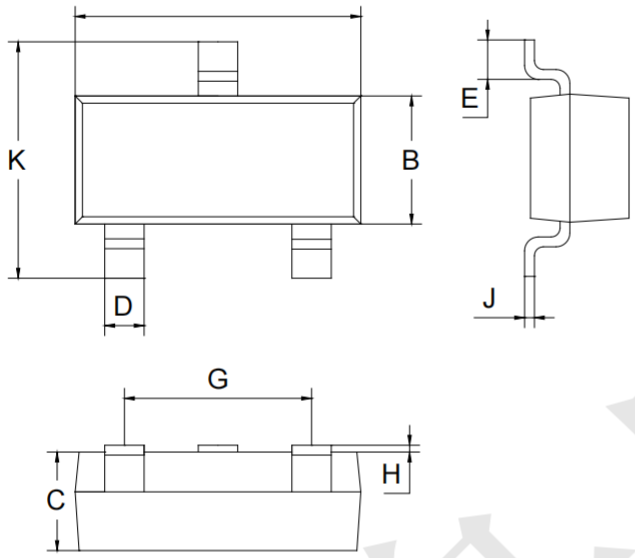
Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	MIN	Typ.	MAX	UNIT
Reverse Breakdown voltage	$V_{(BR)R}$	I_R=500μA	30			
Reverse voltage leakage current	I_R	V_R=30V			20	μA
Forward voltage	V_F	I_F=50mA I_F=100mA I_F=250mA I_F=400mA I_F=750mA I_F=1000mA I_F=1500mA			310 340 390 460 510 580 660	mV
Total capacitance	C_D	V_R=30V,f=1MHz		31		pF
Reverse recovery time	t_{rr}	I_F=500mA,V_R=5V, R_L=6Ω		2.58		ns

Typical Electrical Characteristic Curves



Outline Drawing - SOT23(unit:mm)



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60

Mounting Pad Layout-SOT23 (unit:mm)

