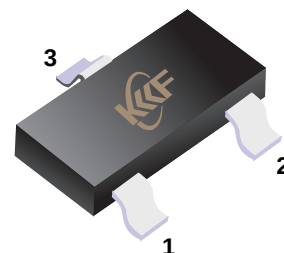


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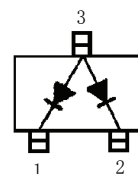
Switching Diodes

Features

- Low forward voltage. : $V_F(3)=0.92V$ (Typ.)
- Fast reverse recovery time : $t_{rr}=1.6ns$ (Typ.)
- Small total capacitance : $C_T=2.2pF$ (Typ.)



Simplified outline(SOT-23)



Marking

Marking	A3
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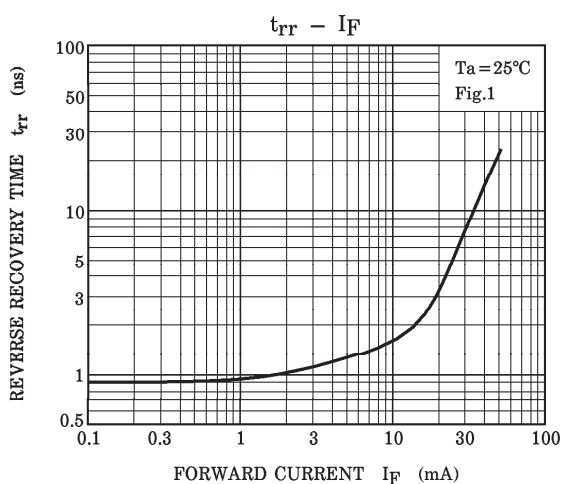
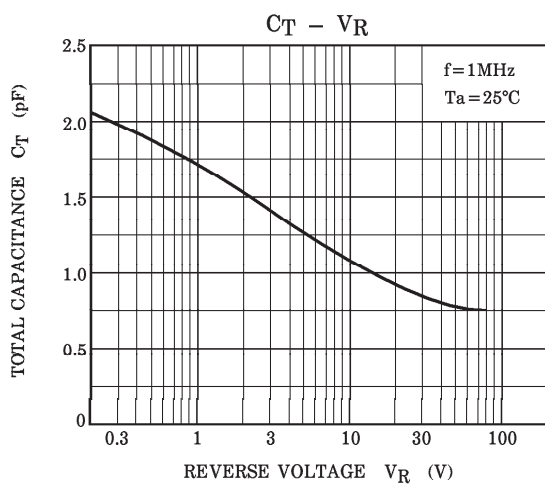
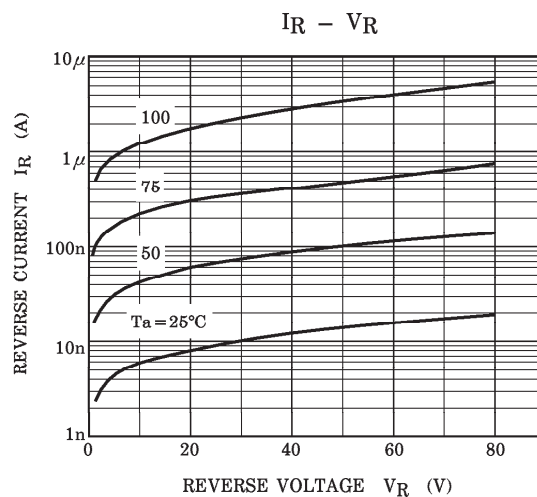
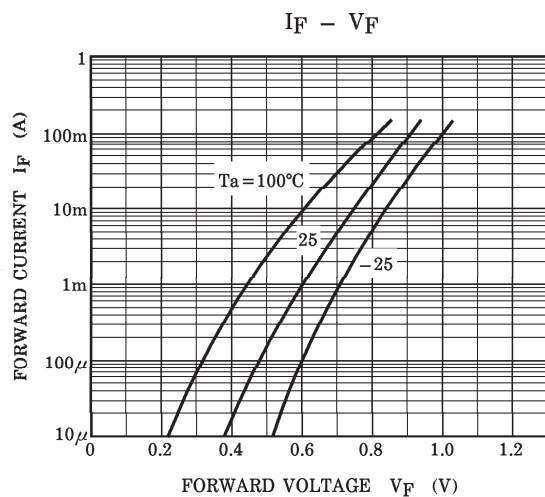
Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Peak reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Average forward current	I_o	100	mA
Peak forward current	I_{FM}	300	mA
Surge current (10ms)	I_{FSM}	2	A
Power dissipation	P	150	mW
Junction temperature	T_j	125	$^\circ C$
Storage temperature	T_{stg}	-55 to +125	$^\circ C$

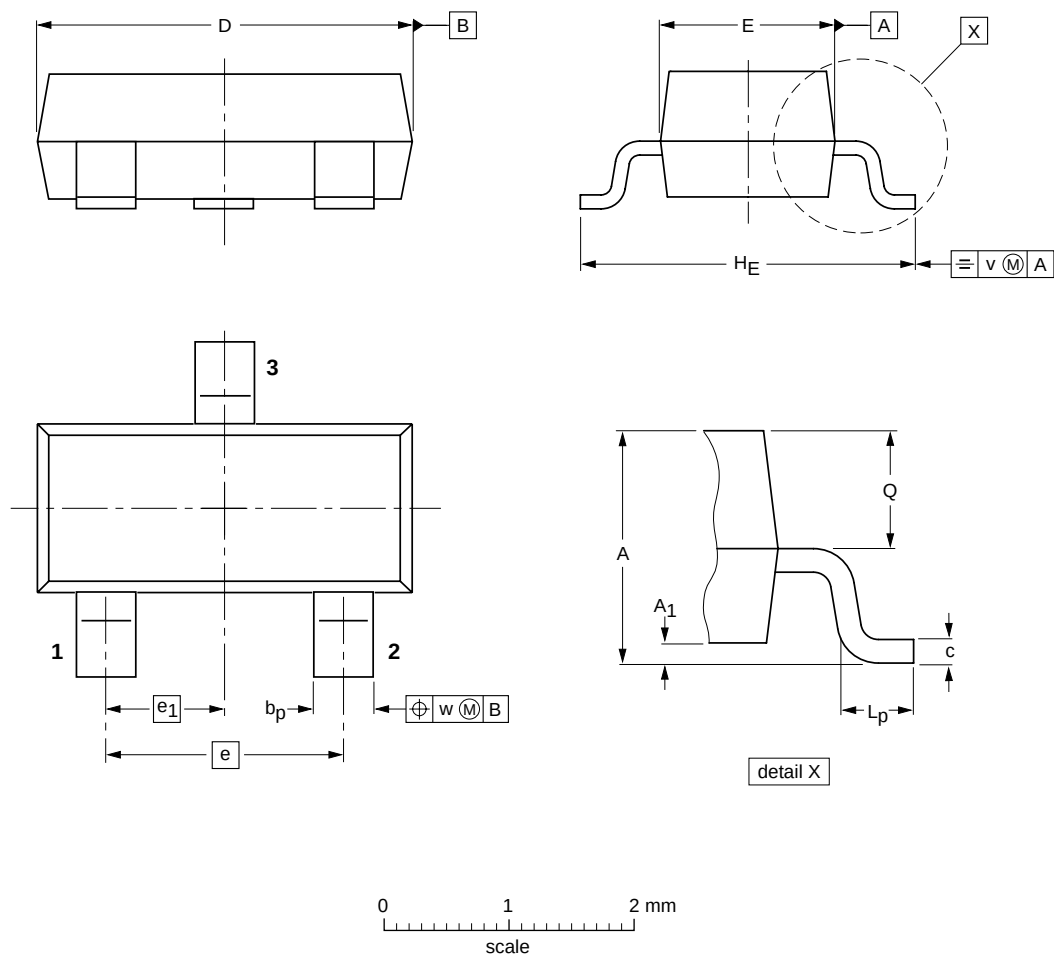
Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu A$	80			V
Forward voltage	V_{F1}	$I_F = 1 \text{ mA}$		0.61		
	V_{F2}	$I_F = 10 \text{ mA}$		0.74		
	V_{F3}	$I_F = 100 \text{ mA}$		0.92	1.2	
Reverse voltage leakage current	I_{R1}	$V_R = 30 \text{ V}$			0.1	μA
	I_{R2}	$V_R = 80 \text{ V}$			0.5	
Capacitance between terminals	C_T	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		2.2	4	pF
Reverse recovery time	t_{rr}	$I_F = 10 \text{ mA}$		1.6	4	ns

■ Typical Characteristics



■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1