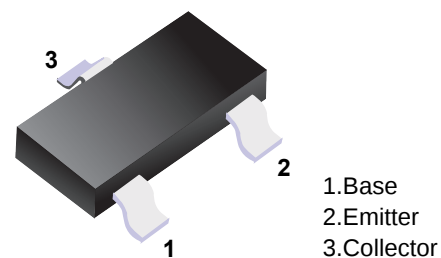


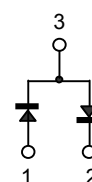
Switching Diodes

■ Features

- Ultra high speed switching
- High reliability



■ Simplified outline(SOT-23)



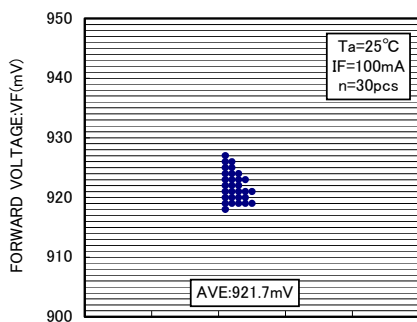
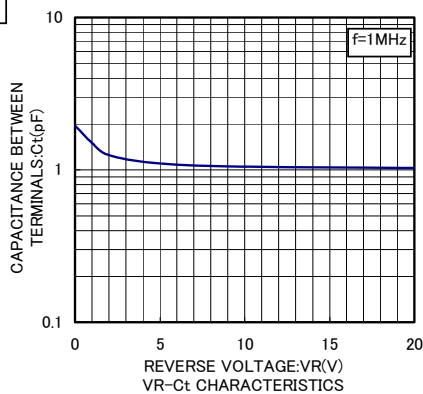
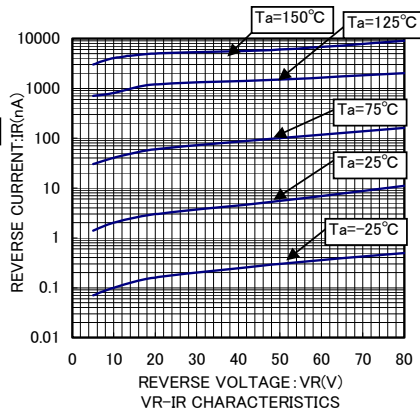
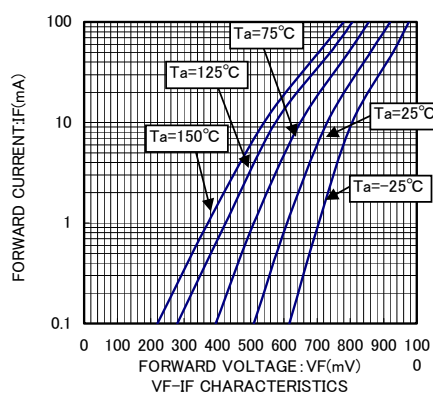
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	80	V
Reverse Voltage (DC)	V_R	80	
Average rectified forward current (Single)	I_o	100	mA
Forward Current (Single)	I_{FM}	300	
Surge current ($t=1\mu\text{s}$)	I_{surge}	4	A
Power Dissipation	P_d	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

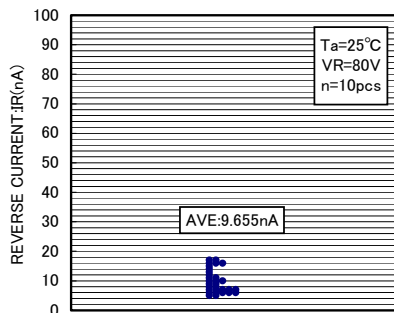
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100 \mu\text{A}$	80			V
Forward voltage	V_F	$I_F = 100 \text{ mA}$			1.2	
Reverse voltage leakage current	I_R	$V_R = 70 \text{ V}$			0.1	μA
Capacitance between terminals	C_t	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$			3.5	pF
Reverse recovery time	t_{rr}	$V_R = 6 \text{ V}, I_F = 5 \text{ mA}, R_L = 50 \Omega$			4	ns

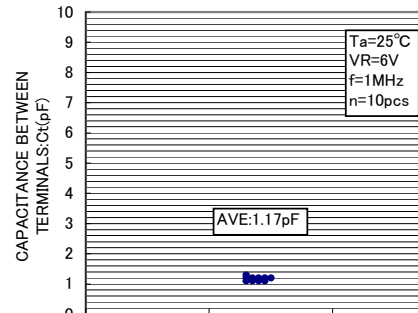
Typical Characteristics



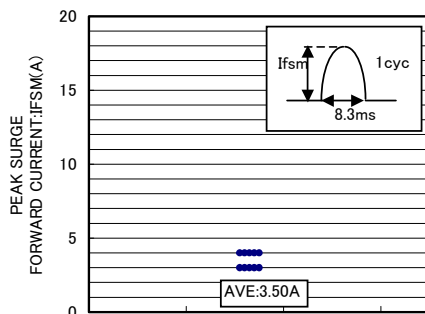
VF DISPERSION MAP



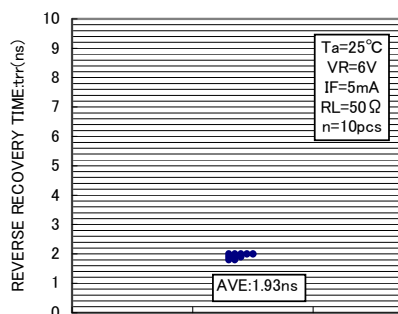
IR DISPERSION MAP



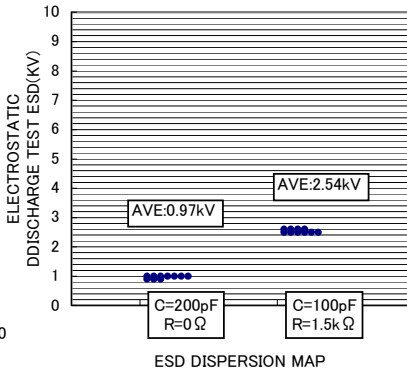
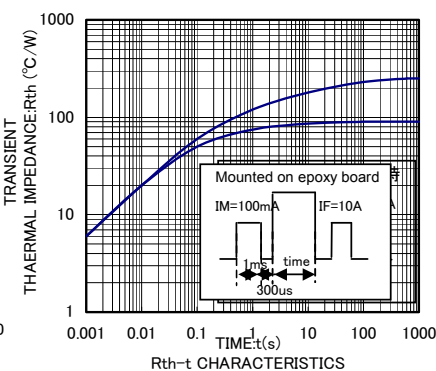
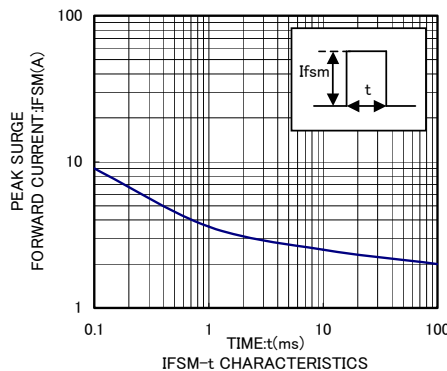
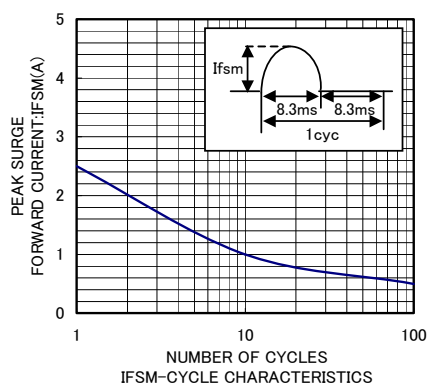
C_t DISPERSION MAP



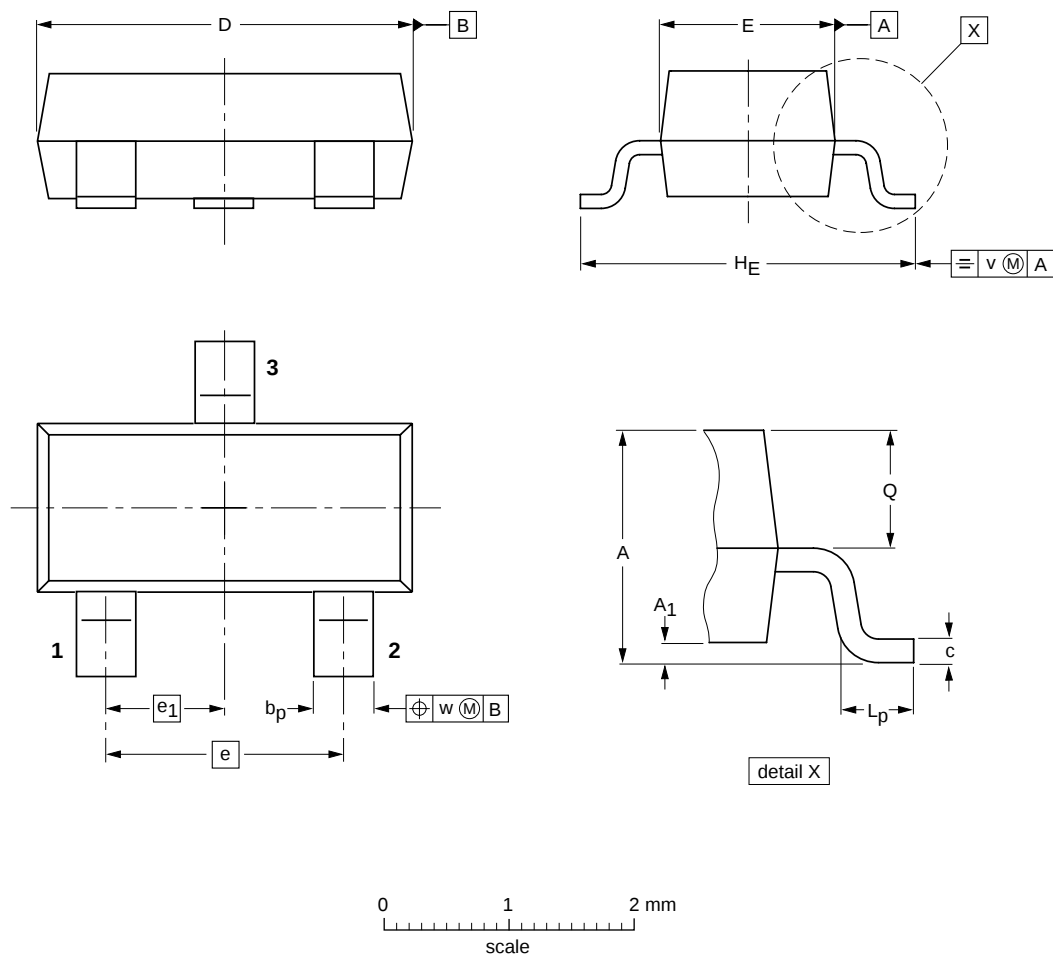
IFSM DISERSION MAP



t_{rr} DISPERSION MAP



■ 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