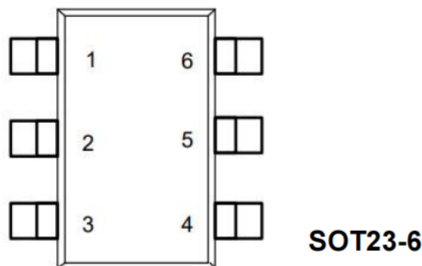


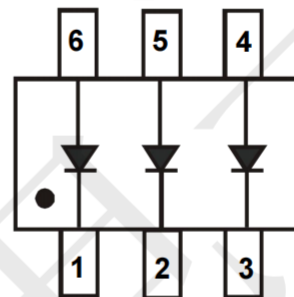
Features

- Repetitive peak forward current
- High switching speed
- Continuous reverse voltage
- Repetitive peak reverse voltage



Applications

- High-speed switching
- General-purpose switching
- Polarity protection application
- Freewheeling diodes



Absolute Maximum Ratings (TA=25°C unless otherwise specified)

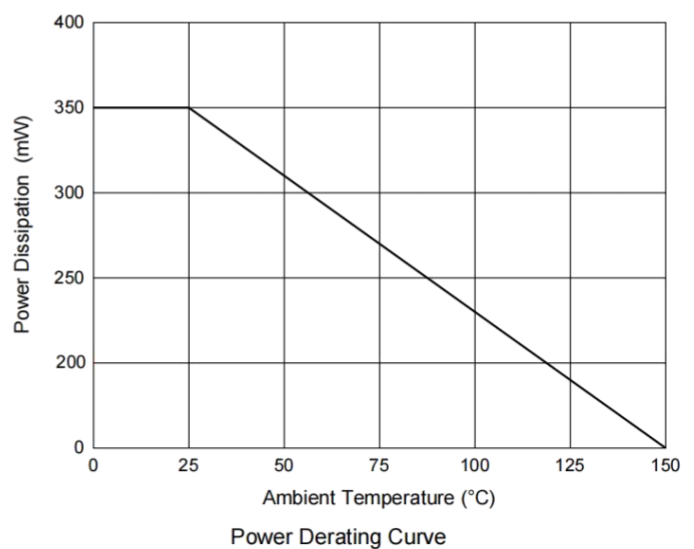
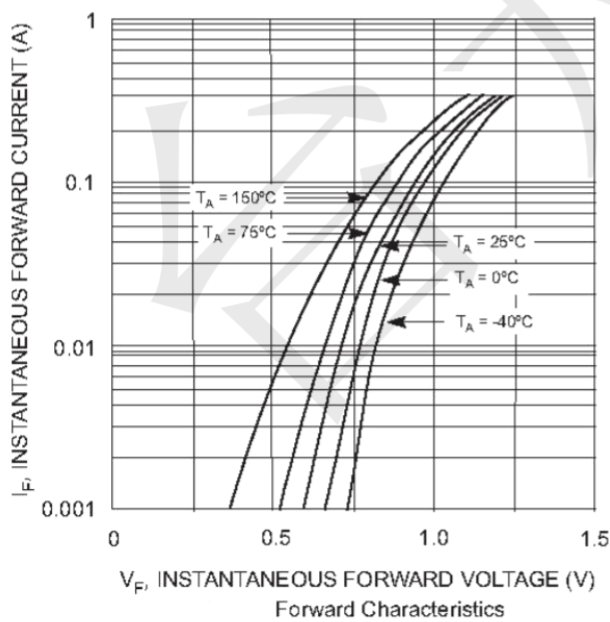
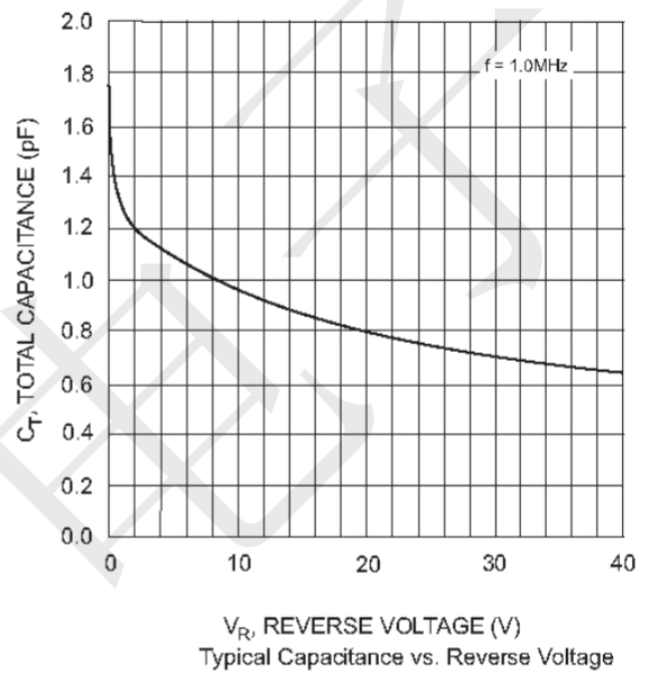
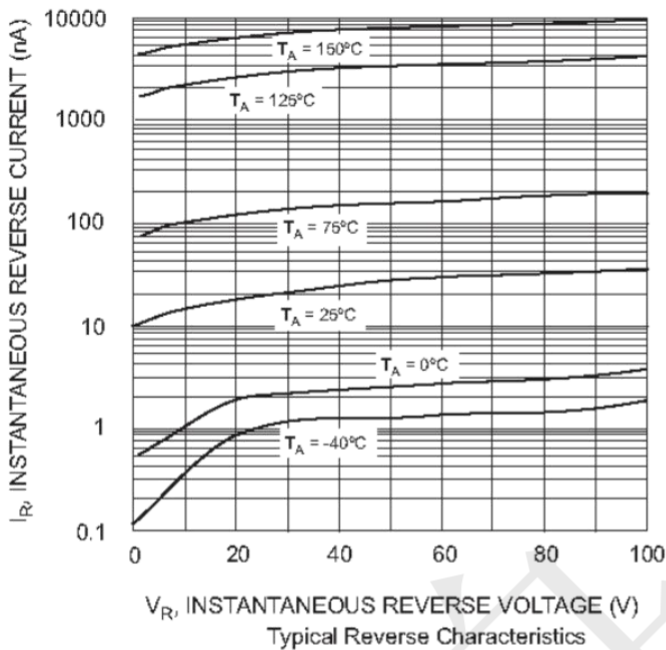
Symbol	Parameter	Limits	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	100	V
V _R	Reverse Voltage	75	V
I _F	Forward Current	200	mA
I _{FRM}	Repetitive Peak Forward Current	600	
I _{FSM}	Non-Repetitive Peak Forward Surge Current @ t=1ms	1.0	A
P _D	Power Dissipation	350	mW
R _{ΘJA}	Thermal Resistance from Junction to Ambient	357	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 100uA	100	--	--	V
		I _R = 5uA	75	--	--	V
Forward Voltage	V _F	I _F = 10mA	--	--	1.0	V
Maximum Peak Reverse Current	I _R	V _R = 75V	--	--	5.0	uA
Total Capacitance	C _J	V _R =0V, f=1MHz	--	--	4.0	PF
Maximum reverse recovery time	T _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω, V _R =6V	--	--	4.0	ns

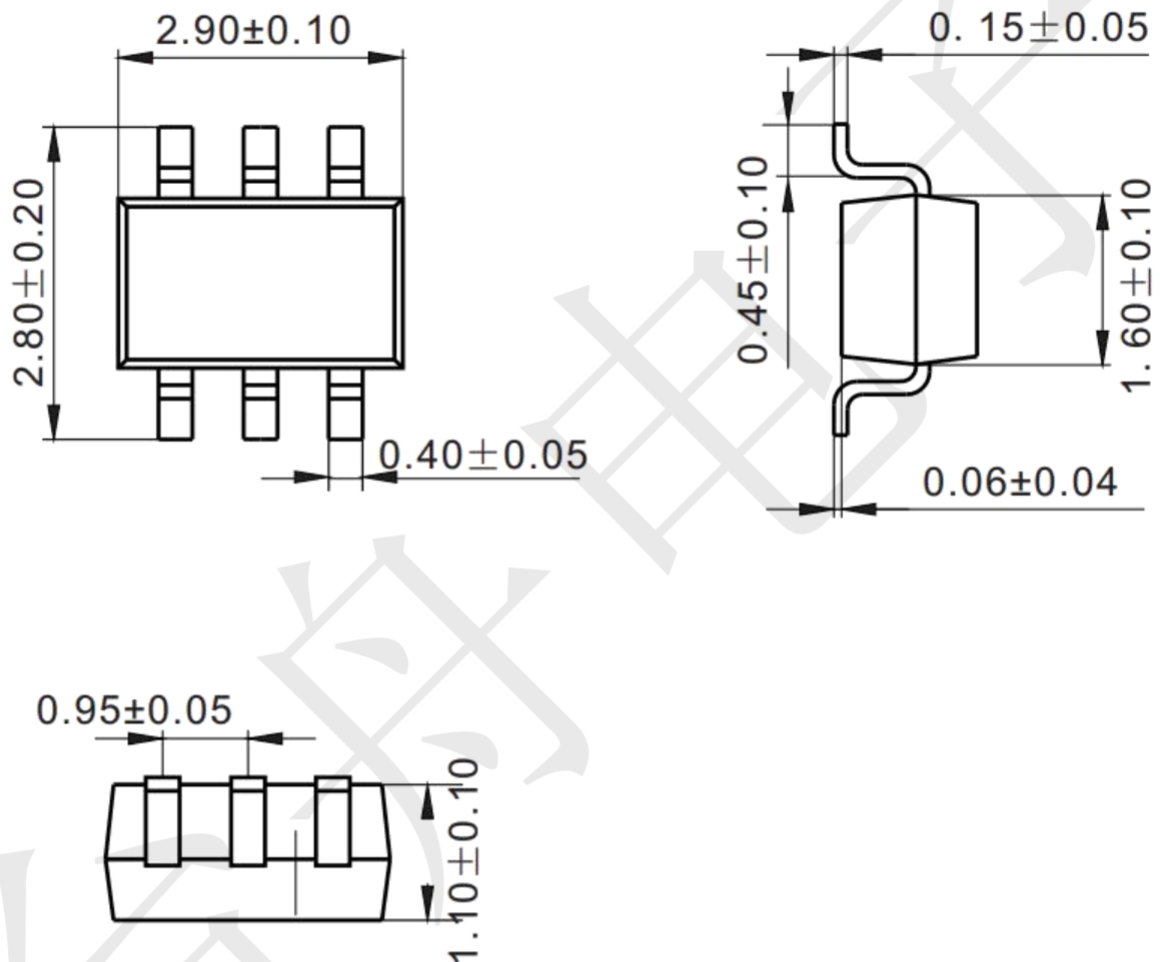
Note 1: The data tested by surface mounted on a 18mm * 15mm * 1mm FR4-epoxy P.C.B

Typical Electrical Characteristic Curves



Package information (Unit: mm)

SOT23-6



Mounting Pad Layout (unit: mm)

