

## Surface mount switching diode

### ■ Features

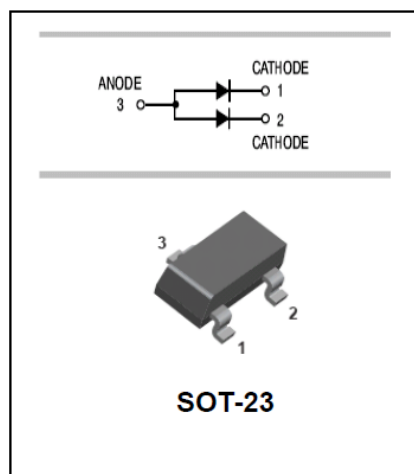
- $V_R$  80V
- $I_O$  100mA

### ■ Applications

- High speed switching application
- Low forward voltage

### ■ Marking A3

### ■ External and internal structure



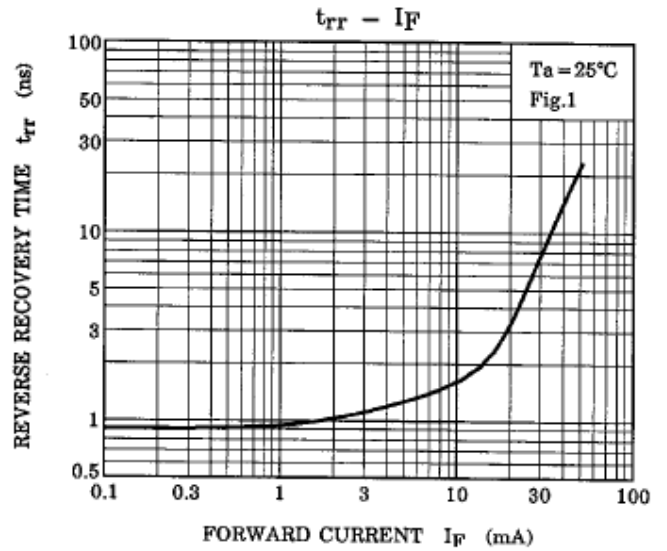
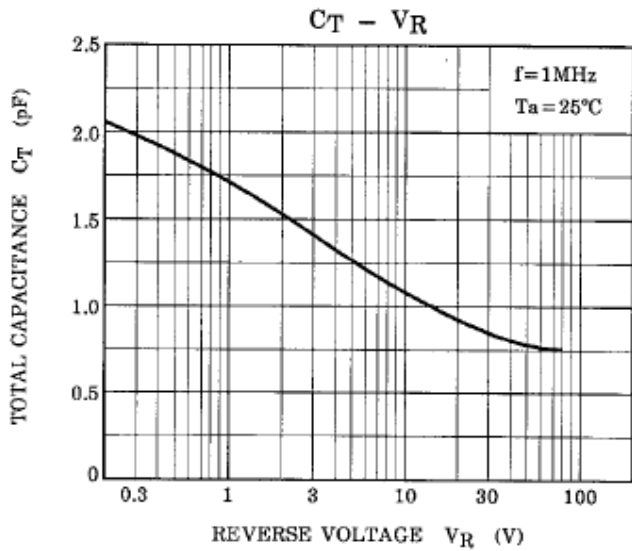
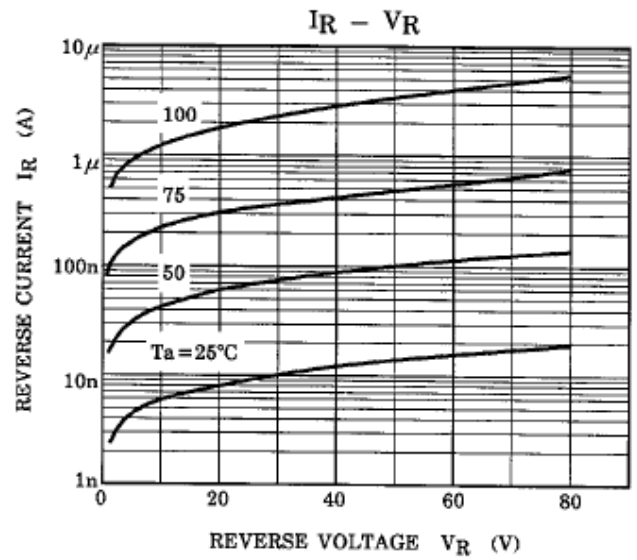
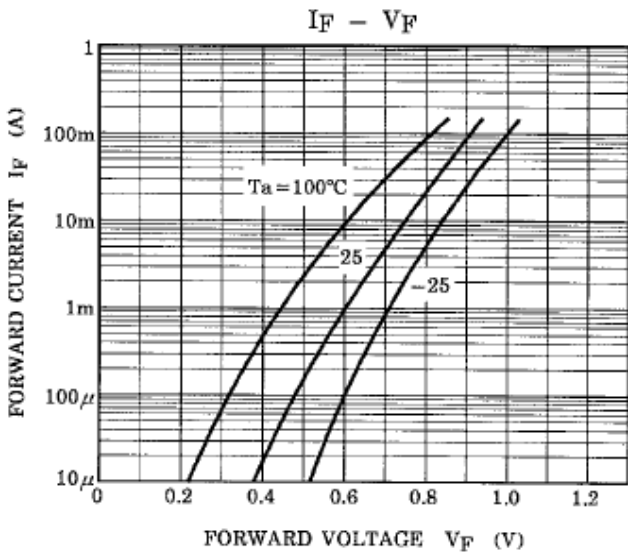
### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit
Non-Repetitive Peak Reverse Voltage	VRM	V		85
DC Reverse Voltage	VR	V		80
Surge current (10ms)	IFSM	A		2
Forward Output current	Io	mA		100
Power Dissipation	Pd	mW		150
Operating Junction Temperature Range	Tj	°C		125
Storage Temperature Range	TSTG	°C		-55 to +125

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

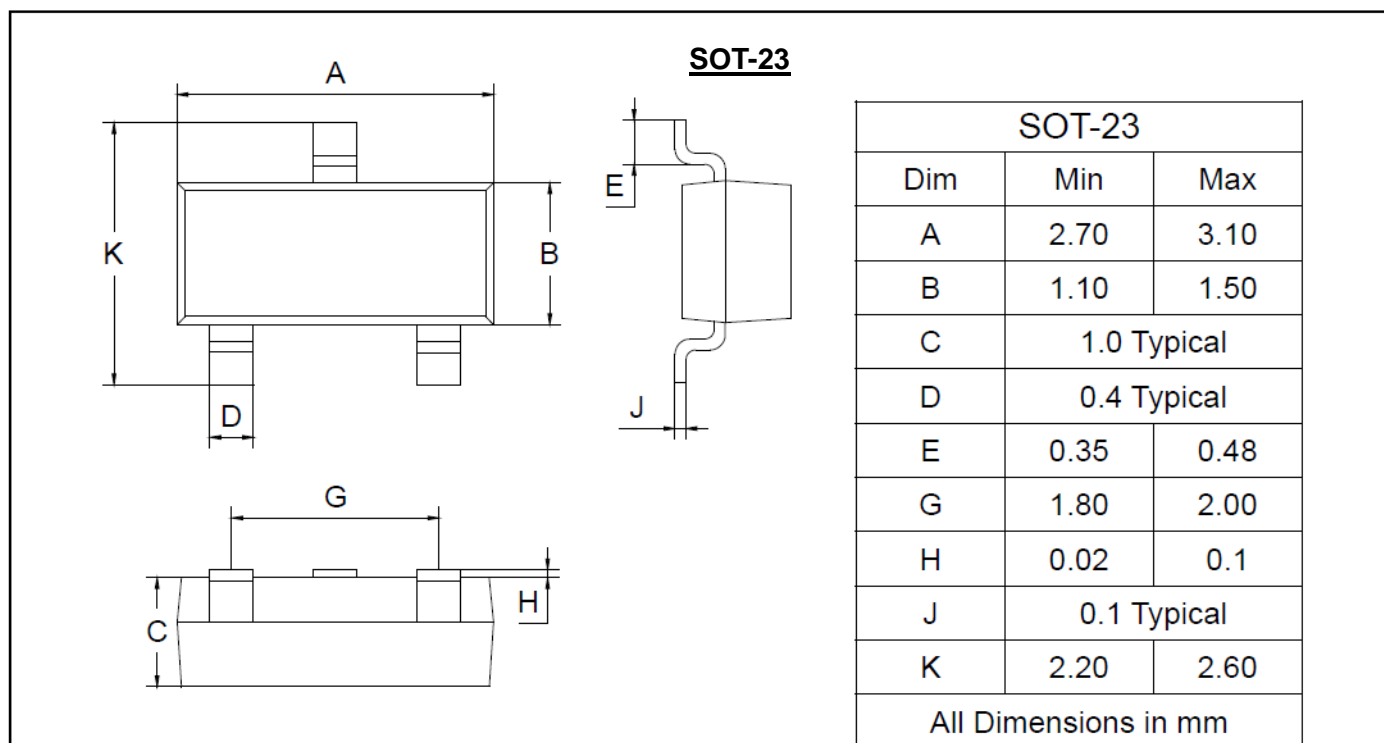
Item	Symbol	Unit	Conditions	Min	Typ	Max
Reverse Breakdown Voltage	V(BR)	V	IR= 100uA	80		
Forward Voltage	VF1	V	IF=1mA		0.61	
	VF2		IF=10mA		0.74	
	VF3		IF=100mA		0.92	1.2
Reverse Leakage Current	IR1	uA	VR=30V			0.1
	IR2		VR=80V			0.5
Total Capacitance	CT	pF	VR=0V, f=1.0MHz		2.2	4.0
Reverse Recovery Time	trr	ns	IF=IR=10mA, Irr=0.1*IR		1.6	4.0

■ Characteristics(Typical)

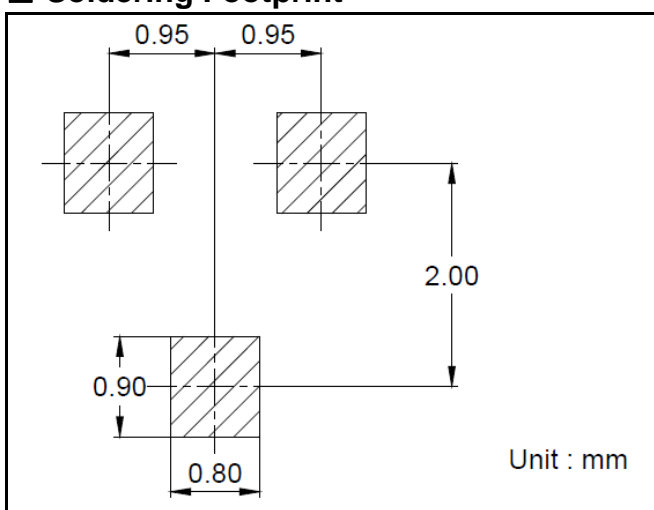




■ Plastic surface mounted package



■ Soldering Footprint



■ Packing Information

Device	Package	Shipping
1SS181	SOT-23	3000/Tape&Reel