

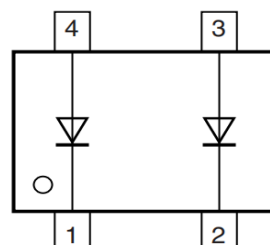


DONGGUAN NANJING ELECTRONICS LTD.,
SOT- 143 Plastic-Encapsulate Diodes

1SS272 Silicon Epitaxial Planar Switching Diode

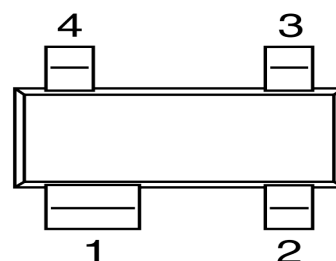
FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion



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

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

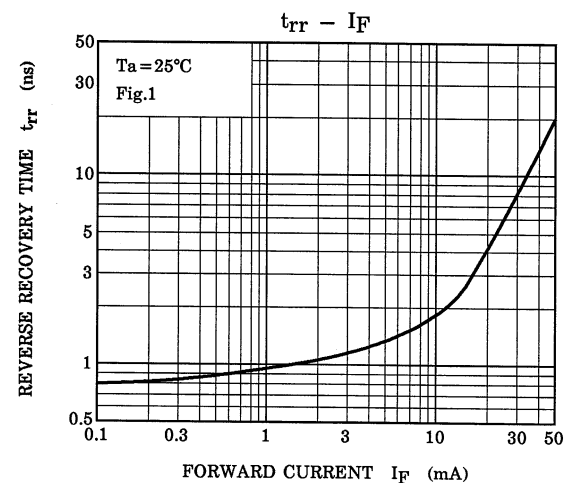
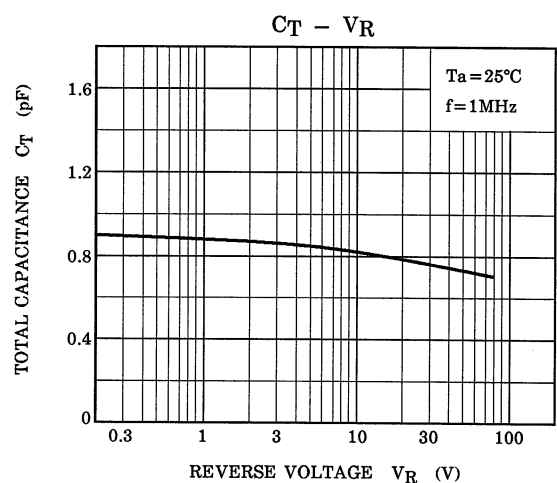
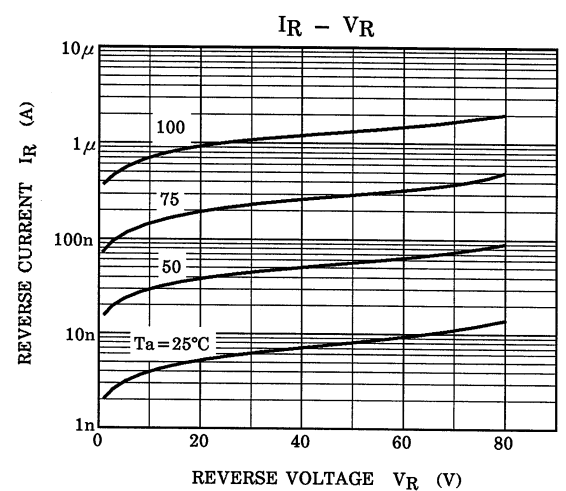
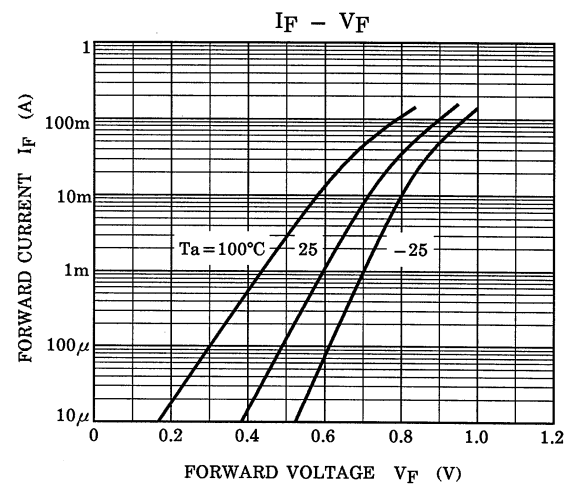


SOT143

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

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 1\text{mA}$	—	0.61	—	V
	V_F	$I_F = 10\text{mA}$	—	0.74	—	
	V_F	$I_F = 100\text{mA}$	—	0.92	1.2	
Reverse current	I_R	$V_R = 30\text{V}$	—	—	0.1	μA
	I_R	$V_R = 80\text{V}$	—	—	0.5	
Total capacitance	C_T	$V_R = 0, f = 1\text{MHz}$	—	0.9	2.0	pF
Reverse recovery time	t_{rr}	$I_F = 10\text{mA}, \text{Fig.1}$	—	1.6	4.0	ns

Typical Characteristics



SOT- 143 Package Outline Dimensions

Plastic surface mounted package

