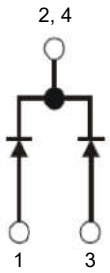
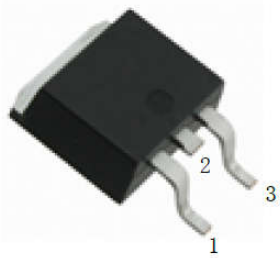
SR6100CT

Surface Mount Schottky Barrier Rectifier





TO-252 Plastic Package

Absolute Maximum Ratings at T_a = 25℃ unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RWM}	100	V
DC Blocking Voltage	V_R	100	V
Average Forward Current T_C = 115℃	$I_{F(AV)}$	6	A
Peak Forward Surge Current (tp = 8.3 ms)	I_{FSM}	78	A
Typical Thermal Resistance Junction to Ambient [1)]	$R_{\theta JA}$	49	℃/W
Operating Junction Temperature Range	T_j	- 65 to + 150	℃
Storage Temperature Range	T_{stg}	- 65 to + 150	℃

[1)] Device mounted on Polymide substrate PC board, 1oz Copper, with minimum recommended pad layout.

Characteristics at T_a = 25℃ unless otherwise specified

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I_R = 0.2 mA	$V_{(BR)R}$	100	-	V
Forward Voltage at I_F = 3 A at I_F = 3 A, T_J = 125℃	V_F	- -	0.74 0.62	V
Reverse Current at V_R = 100 V at V_R = 100 V, T_J = 125℃	I_R	- -	0.2 15	mA

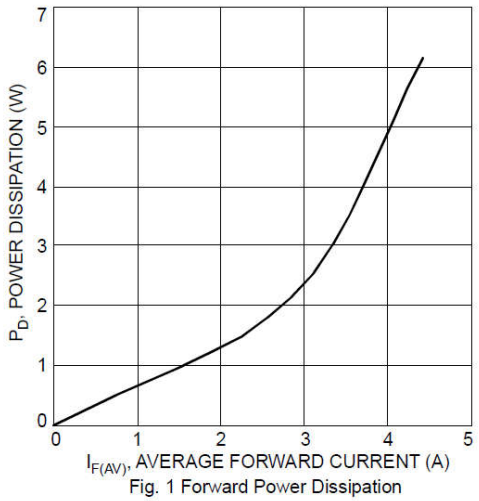


Fig. 1 Forward Power Dissipation

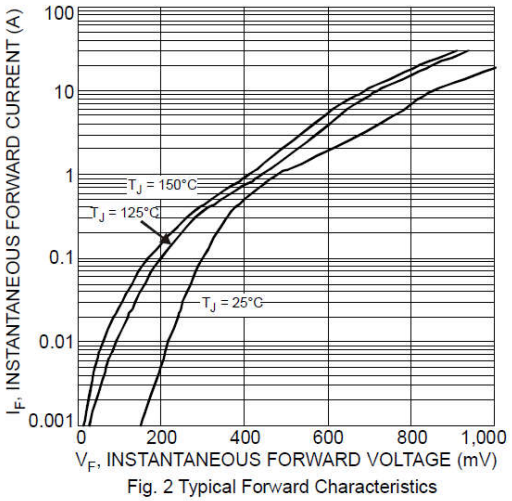


Fig. 2 Typical Forward Characteristics

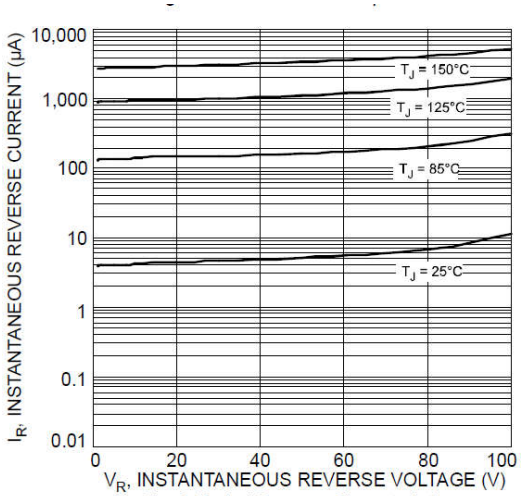


Fig. 3 Typical Reverse Characteristics

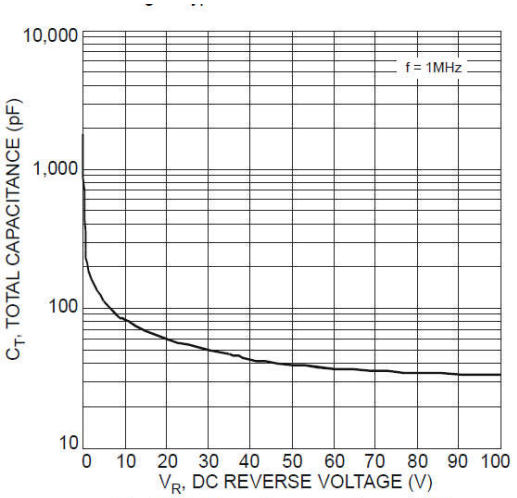
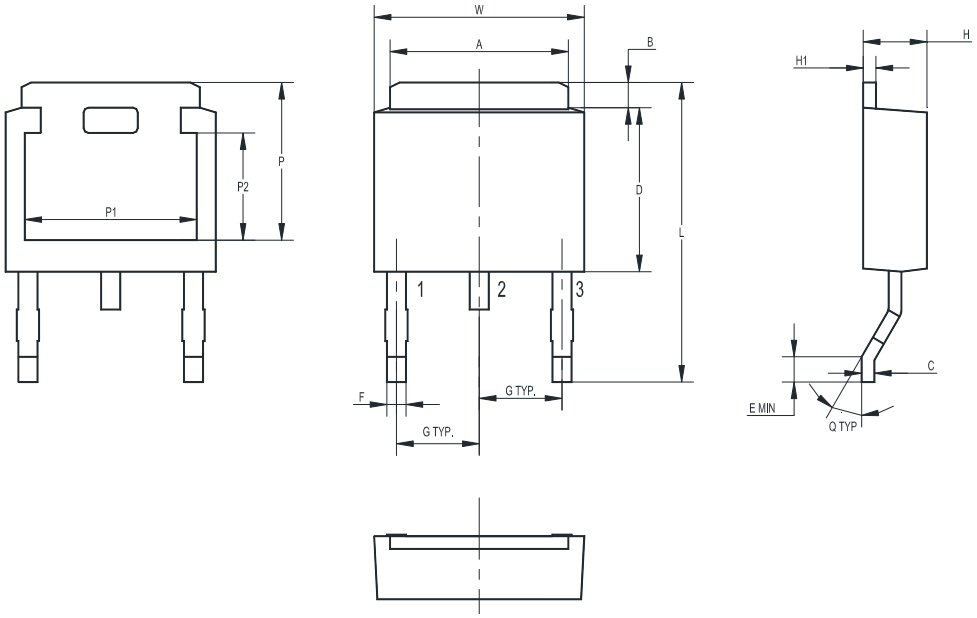


Fig. 4 Total Capacitance vs. Reverse Voltage

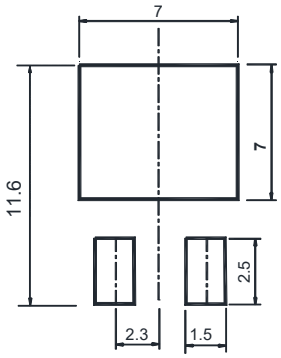
SR6100CT

Package Outline Dimensions (Units: mm) TO-252



UNIT	A	B	C	D	E	F	G	W	H	H1	Q	L	P	P1	P2
mm	5.5	1.20	0.65	6.2	0.8 MIN	1.0	2.3 TYP.	6.7	2.5	0.65	60° TYP.	10.7	5.4	5.0	3.4
	4.9	0.85	0.4	5.6		0.5		6.1	2.1	0.4		9	5.0	4.6	2.9

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-252	12	8 ± 0.1	0.315 ± 0.004	330	13	2,500

Marking information

" SR6100CT " = Part No. (" * " = HFE grouping Code)

" ****** " = Date Code Marking

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