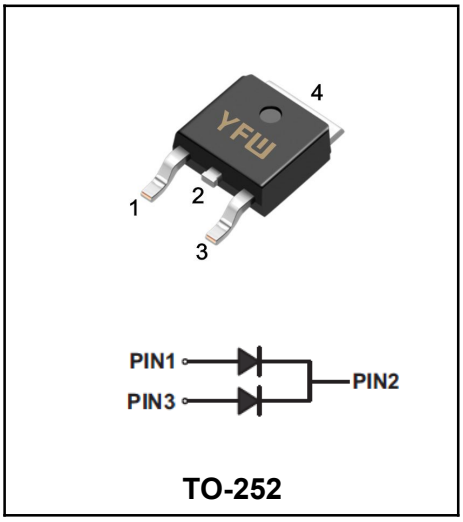
LOW VF Schottky Barrier Rectifier

Reverse Voltage - 300 V

Forward Current - 20A



TO-252

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low forward voltage drop
- High forward surge current capability
- High temperature soldering guaranteed 260 °C/10 seconds at terminals

MECHANICAL DATA

- Case: TO-252
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any

Primary Characteristic

I_o	**2*10A**
V_{RRM}	**300V**
I_{FSM}	**150A**
V_F	**0.82V**
T_J **Max**	**150°C**

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	300	V
Maximum RMS voltage		V_{RMS}	210	V
Maximum DC Blocking Voltage		V_{DC}	300	V
Maximum Average Forward Rectified Current T_C=110 °C	Per Leg	I_o	20	A
	Total		10	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave		I_{FSM}	150	A
Typical thermal resistance		$R_{\theta JC}$	2.0	°C/W
Operating Temperature Range		T_J	-55 ~ +150	°C
Storage Temperature Range		T_{STG}	-55 ~ +150	°C

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Typ	Max	Units
Maximum instantaneous forward voltage per diode at 10A	T_A=25°C	V_F	0.93	0.98	V
	T_A=125°C	V_F	0.82	-	V
Maximum DC reverse current at rated DC blocking voltage	T_A=25°C	I_R	0.5	50	uA
	T_A=100°C		1	10	mA

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

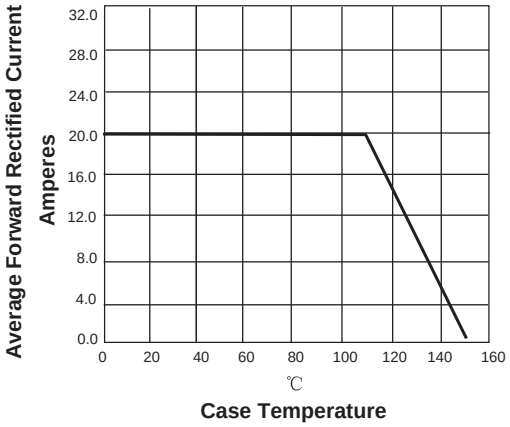


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

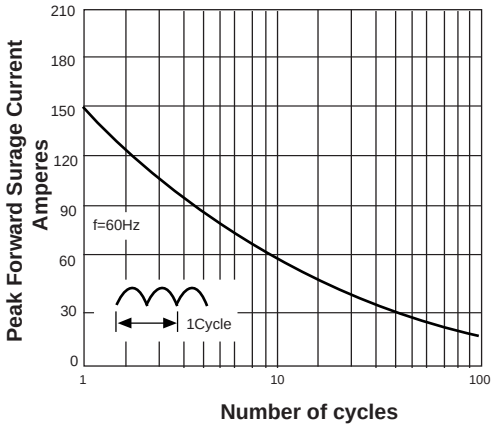


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

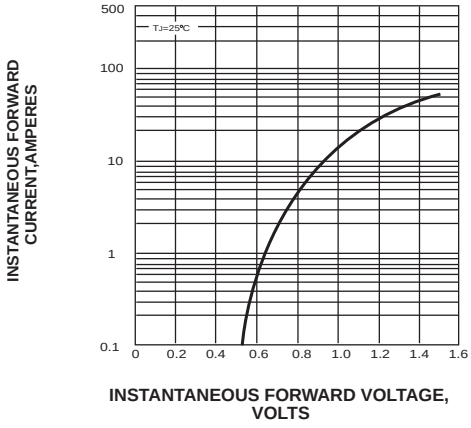
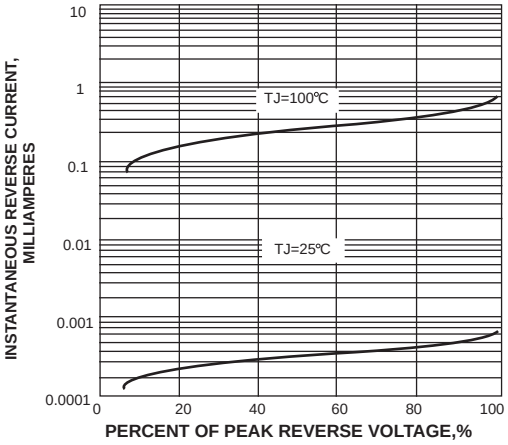
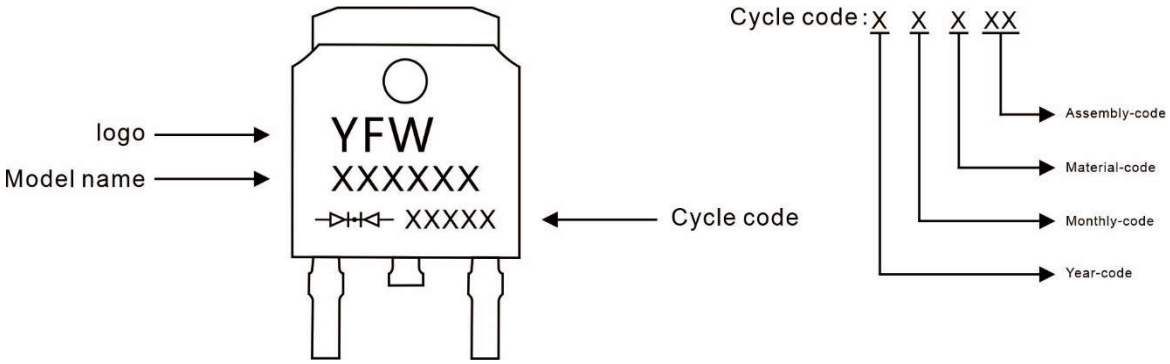


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

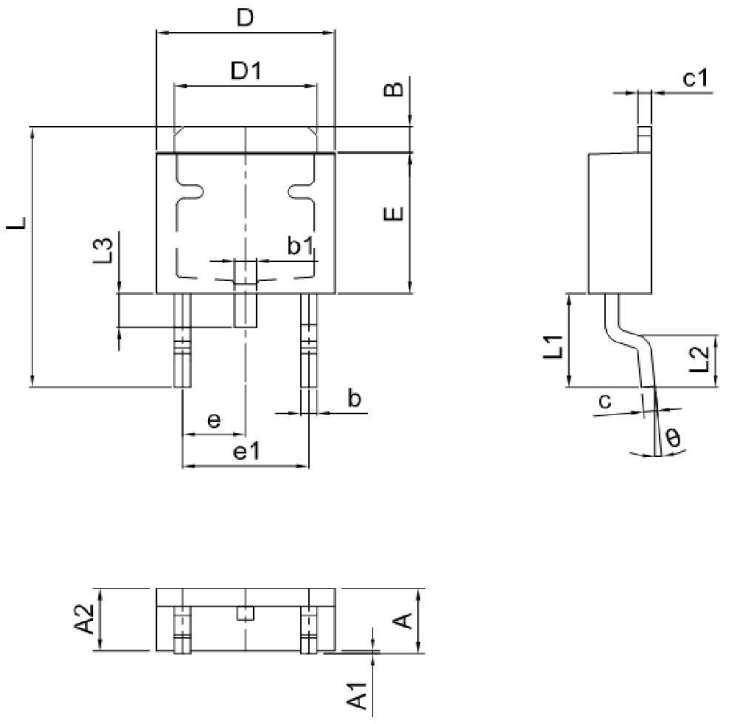


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
SRT20L300CS	TO-252	0.011oz(0.32g)	2500pcs/reel	5000pcs/box 25000pcs/Carton

Package Dimensions

TO-252



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.50	0.087	0.098
A1	0.00	0.12	0.000	0.005
A2	2.20	2.40	0.087	0.094
B	1.20	1.60	0.047	0.063
b	0.50	0.70	0.020	0.028
b1	0.70	0.90	0.028	0.035
c	0.40	0.60	0.016	0.024
c1	0.40	0.60	0.016	0.024
D	6.35	6.65	0.250	0.262
D1	5.20	5.40	0.205	0.213
E	5.40	5.70	0.213	0.224
e	2.20	2.40	0.087	0.094
e1	4.40	4.80	0.173	0.189
L	10.00	11.00	0.393	0.433
L1	2.70	3.10	0.106	0.122
L2	1.40	1.80	0.055	0.071
L3	0.90	1.50	0.035	0.059

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