

ULTRA LOW VF SCHOTTKY RECTIFIER

Reverse Voltage - 200 V

Forward Current - 60 A

Features

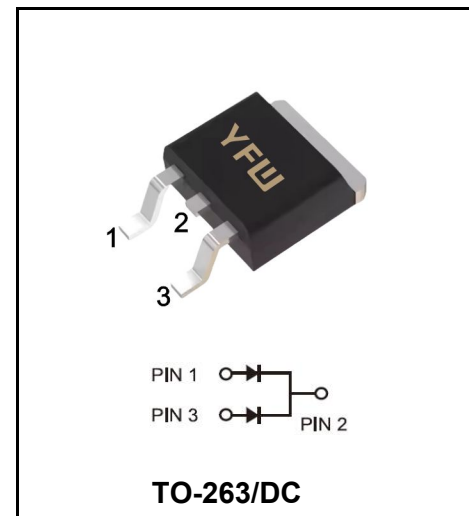
- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆Construction utilizes void-free molded plastic technique
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed
260°C/10 seconds at terminals

Mechanical Data

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

Primary Characteristic

I_(AV)	2*30A
V_{RRM}	200V
I_{FSM}	300A
V_F	0.85V
T_J Max	150°C



Maximum Ratings (Ta=25 unless otherwise specified)

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Working Peak Reverse Voltage		V_{RMS}	140	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Maximum average forward rectified current at T _c =110 °C	Per device	I_(AV)	60	A
	Per diode		30	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave		I_{FSM}	300	A
Operating Temperature Range		T_J	-55 ~ +150	°C
Storage Temperature Range		T_{STG}	-55 ~ +150	°C
Typical thermal resistance		R_{θJC}	3.5	°C/W

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

Characteristics		Symbols	Value		Units
Forward Voltage Drop		V_F	Typ	Max	V
Maximum instantaneous forward voltage per diode at 30.0A	T _A =25°C		1.20	1.35	
	T _A =125°C		0.85	-	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I_R	10	50	uA
	T _A =100°C		1	10	mA

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

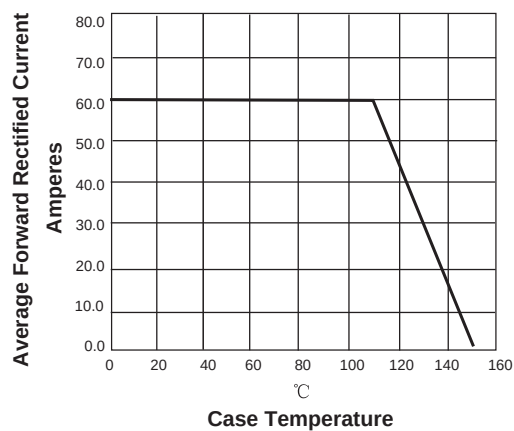


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

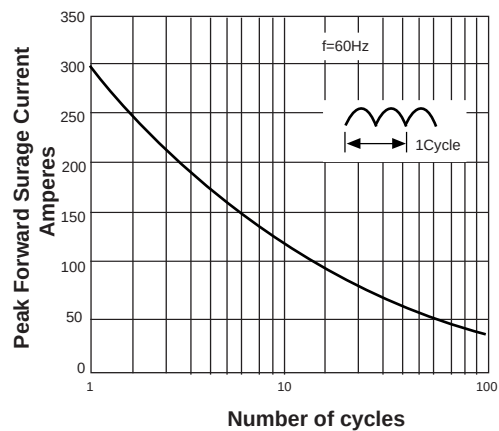


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

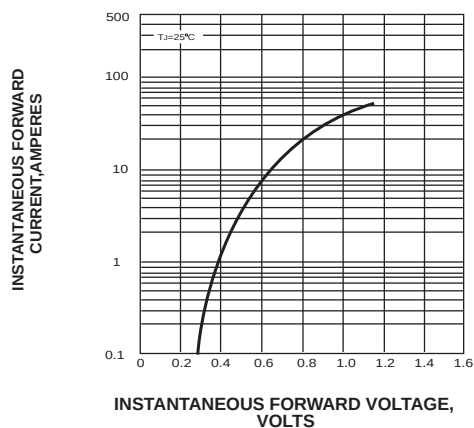
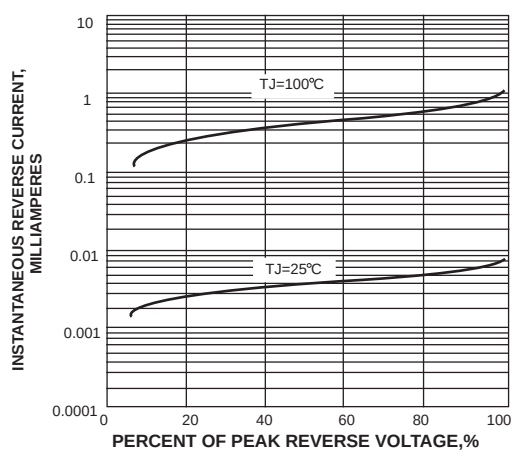
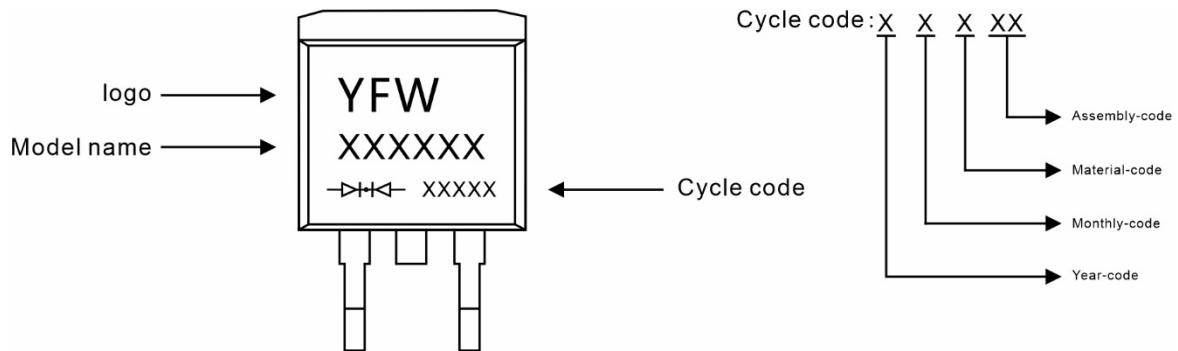


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
SRT60L200DC	TO-263	0.04oz(1.16g)	800pcs/reel	1600pcs/box 8000pcs/Carton

Package Dimensions

TO-263

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.30	4.70	0.169	0.185
A1	0.00	0.15	0.000	0.006
A2	4.30	4.55	0.169	0.179
B	1.10	1.50	0.043	0.059
b	0.70	0.90	0.028	0.035
b1	1.20	1.50	0.047	0.059
c	0.30	0.60	0.012	0.024
c1	1.17	1.37	0.046	0.054
D	9.90	10.20	0.390	0.402
E	8.50	8.90	0.335	0.350
e	2.44	2.64	0.096	0.104
e1	4.88	5.28	0.192	0.208
L	15.00	15.30	0.591	0.602
L1	5.20	5.40	0.205	0.213
L2	2.40	2.60	0.094	0.102
L3	1.60	1.80	0.063	0.071

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