

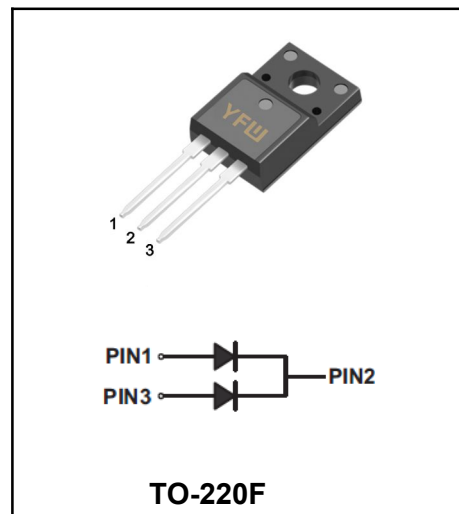
Schottky Barrier Rectifier

Reverse Voltage - 300 V

Forward Current - 30 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*15A
V_{RRM}	300V
I_{FSM}	150A
V_F	0.91V
T_JMax	175°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
Working Peak Reverse Voltage		V_{RMS}	210	V
Maximum DC Blocking Voltage		V_{DC}	300	V
Maximum average forward rectified current at Tc=110 °C	Per device	I_(AV)	30	A
	Per diode		15	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave		I_{FSM}	150	A
Operating Temperature Range		T_J	-50 ~ +175	°C
Storage Temperature Range		T_{STG}	-50 ~ +175	°C
Typical thermal resistance		R_{θJC}	3.5	°C/W

Electrical Characteristics (Per Leg) Unless Otherwise Specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop		V_F	Typ	Max	V
Maximum instantaneous forward voltage	per diode at 10.0A		0.86	0.90	
	per diode at 15.0A		0.91	0.95	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I_R	0.1	20	uA
	T _A =100°C		0.5	10	mA

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

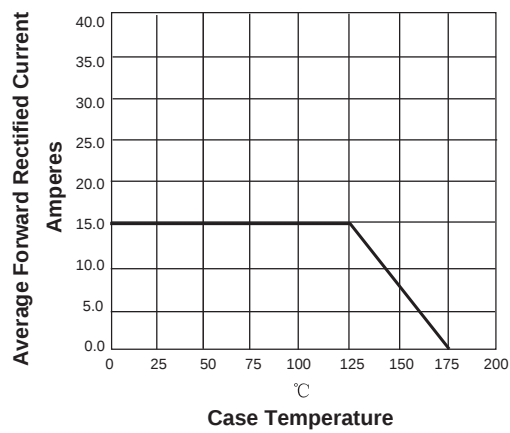


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

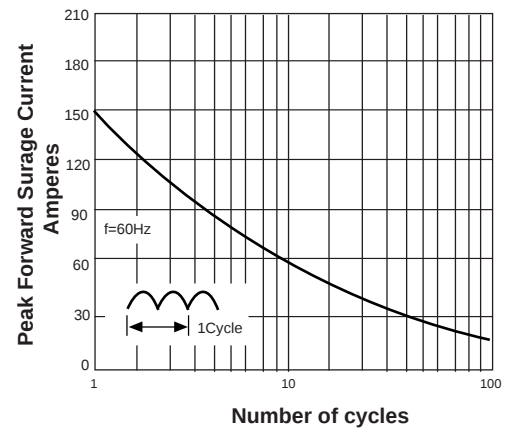


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

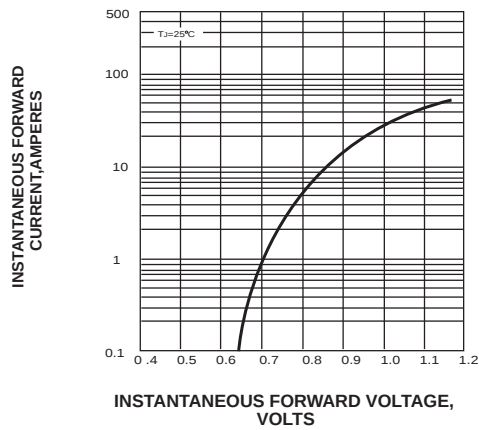
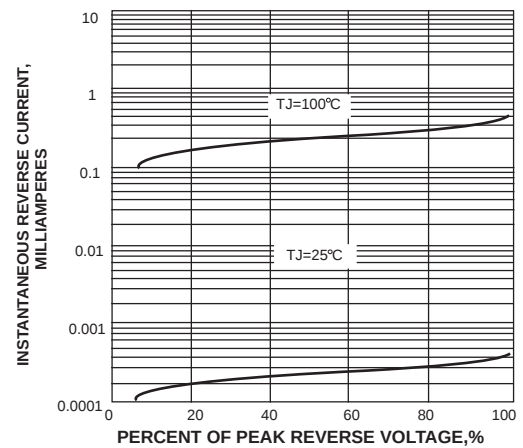
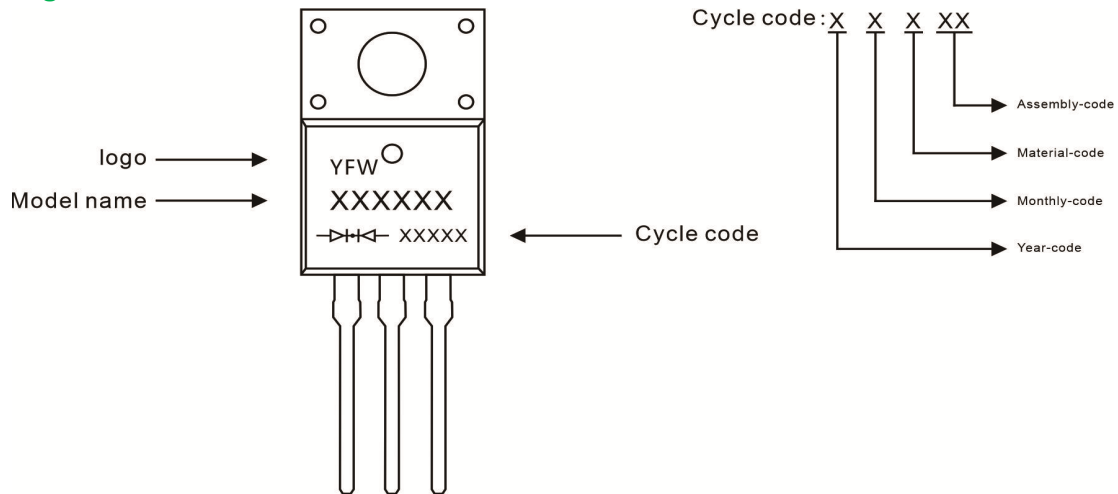


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
HRT30L300FCT	TO-220F	0.06oz(1.74g)	50pcs/tube	1000PCS/Box 5000PCS/Carton

Package Dimensions

TO-220F

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.50	4.90	0.177	0.193
A1	2.34	2.74	0.092	0.108
A2	2.66	2.86	0.105	0.113
b	0.75	0.85	0.030	0.033
b1	1.24	1.44	0.049	0.057
c	0.40	0.60	0.016	0.024
D	10.00	10.32	0.394	0.406
E	15.75	16.05	0.620	0.632
e	2.44	2.64	0.096	0.104
e1	4.88	5.28	0.192	0.208
F	3.10	3.5	0.122	0.138
L	13.50	13.90	0.531	0.547
L1	2.90	3.30	0.114	0.130
Φ	3.10	3.30	0.122	0.130

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