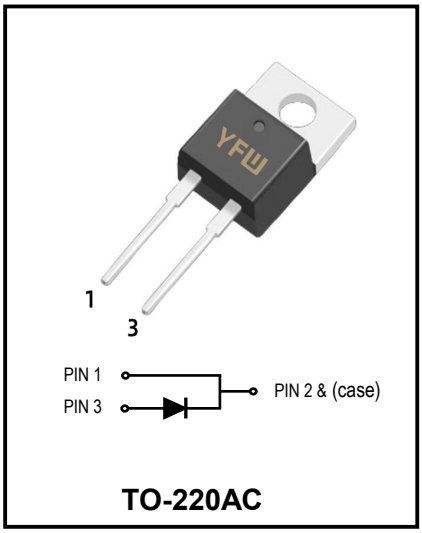
Standard Rectifiers

Reverse Voltage - 1600V

Forward Current - 15A



TO-220AC

Feaures

- Glass passivated chip junctions
- Low reverse current operation
- High Junction Temperature
- High Forward Surge Capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Circuit figure: Single positive
- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight: 1.80 grams

Maximum Ratings & Electrical Characteristics

RATINGS	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	1600	V
Maximum RMS voltage	V_{RMS}	1120	V
Maximum DC blocking voltage	V_{DC}	1600	V
Maximum average forward current	I_{AV}	15	A
Max.Forward Surge Current ,8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	A
Typical Thermal Resistance	$R_{\theta-JC}$	2.5	℃/W
Operating Junction Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃
CHARACTERISTICS			
Maximum forward voltage per leg at 16A	V_F	1.2	V
Maximum average reverse current T_J=25°C at rated DC blocking voltage T_J=125°C	I_R	5 250	μA

Ratings and Characteristic Curves

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

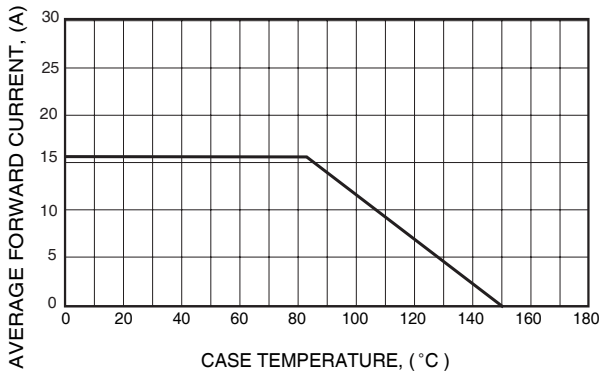


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

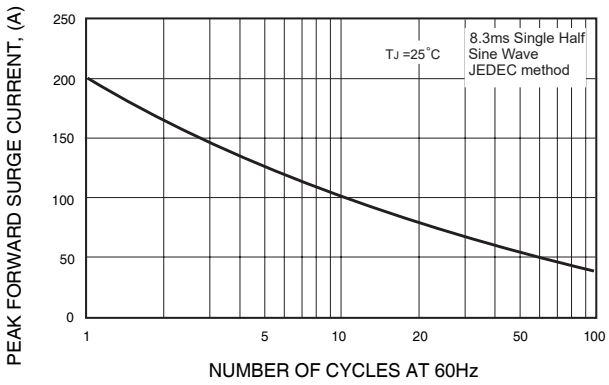


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

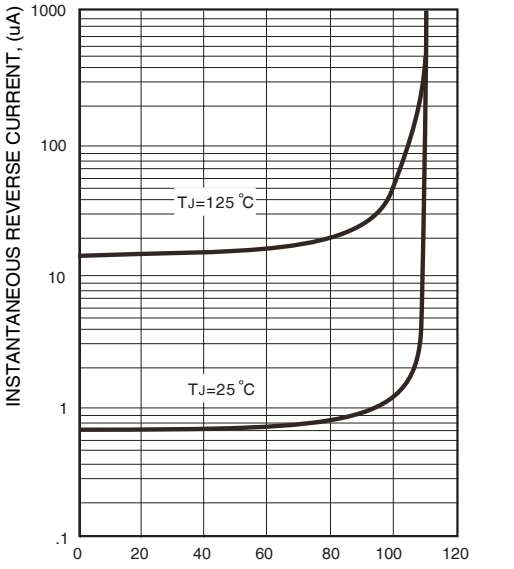
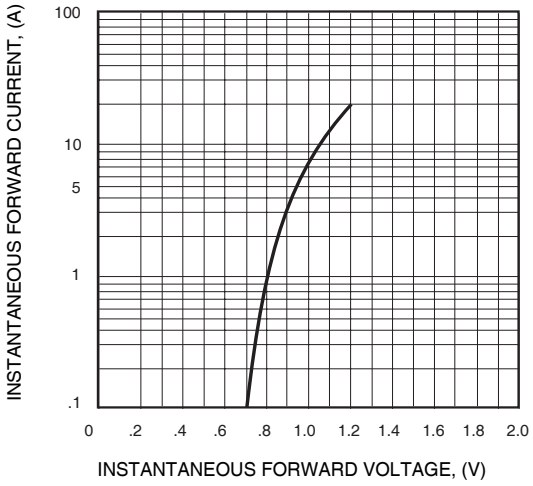
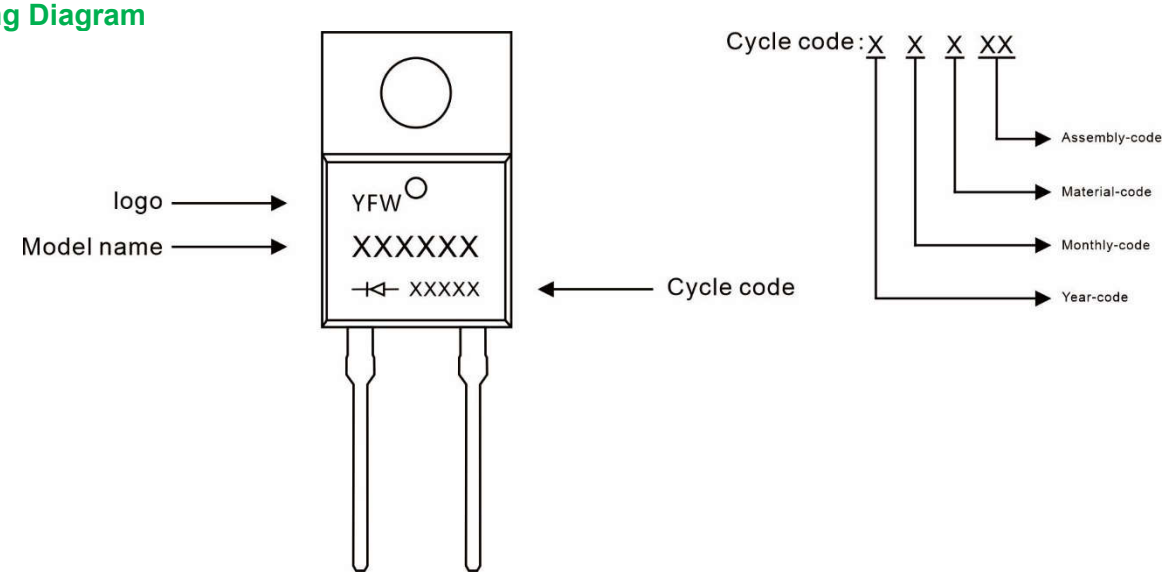


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Marking Diagram

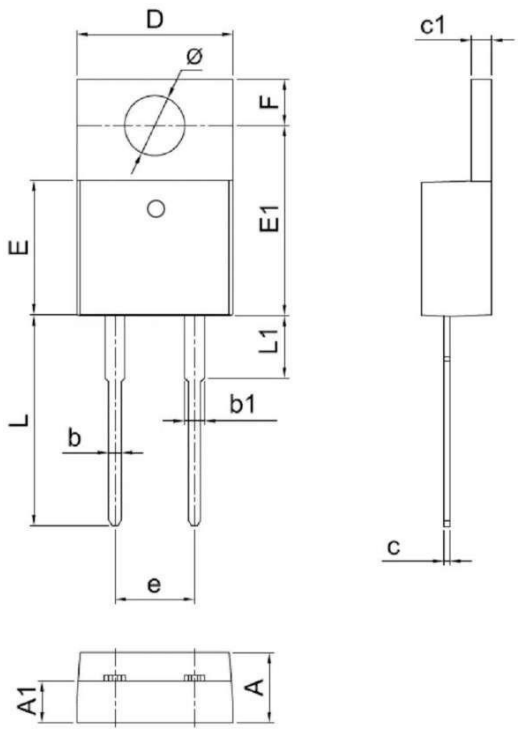


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
G15160DA	TO-220AC	0.067oz(1.9g)	50pcs/tube	1000PCS/Box 5000PCS/Carton

Package Dimensions

TO-220AC



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.34	4.67	0.171	0.184
A1	2.52	2.82	0.099	0.111
b	0.71	0.91	0.028	0.036
b1	1.17	1.37	0.046	0.054
c	0.30	0.50	0.012	0.020
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
E1	12.00	12.50	0.472	0.492
e	4.88	5.28	0.192	0.208
F	2.60	2.80	0.102	0.110
L	13.20	13.80	0.520	0.543
L1	3.80	4.20	0.150	0.165
Φ	3.60	3.96	0.142	0.156

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