TAYCHIPST

Glass Passivated Ultrafast Recovery Rectifier

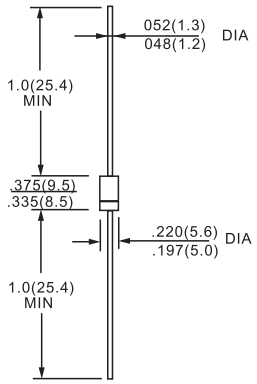
31DF2 THRU 31DF4

200V-400V 3.0A

FEATURES

- High current capability
- The plastic material carries U/L recognition 94 V-0
- Terminals: Axial Leads
- Polarity: Color band denotes cathode

DO-27



Dimensions in inches and (millimeters)

MECHANICAL DATA

* Case:JEDEC DO--27,molded plastic
* Terminals: Axial lead ,solderable per MIL-STD202,Method 208
* Polarity: Color band denotes cathode
* Weight: 0.041ounces,1.15 grams
* Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

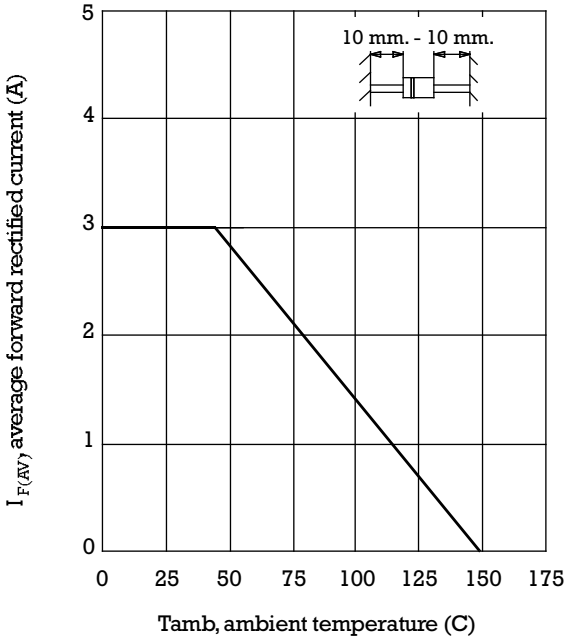
Type		31DF2	31DF4
V_{RRM}	Peak Recurrent reverse voltage	200 V	400 V
$I_{F(AV)}$	Forward current at Tamb = 40 °C	3 A	
I_{FRM}	Recurrent peak forward current	15 A	
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	90 A	
t_{rr}	Reverse recovery time from I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A	30 ns	
T_j	Operating temperature range	– 65 to + 150 °C	
T_{stg}	Storage temperature range	– 65 to + 150 °C	

Electrical Characteristics at Tamb = 25 °C

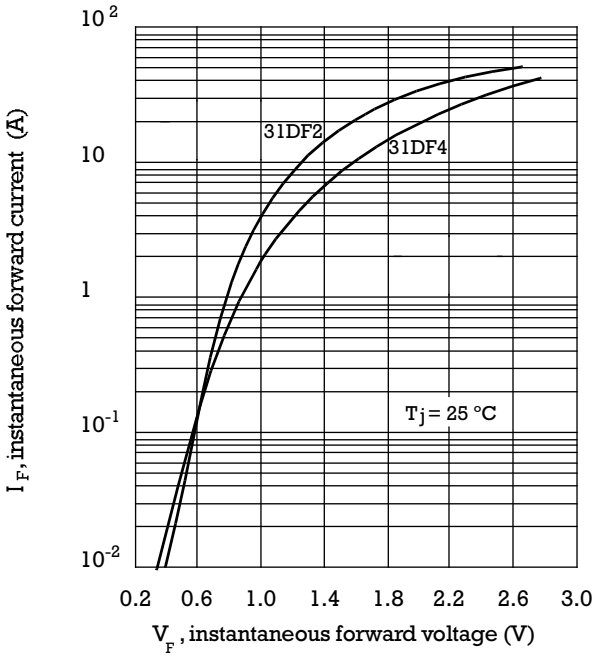
V_F	Max. forward voltage drop at I_F = 3 A	0.98 V	1.25 V
I_R	Max. reverse current at V_{RRM} at 25 °C	10 µA	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	30 °C/W	

RATINGS AND CHARACTERISTIC CURVES 31DF2 THRU 31DF4

FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT