

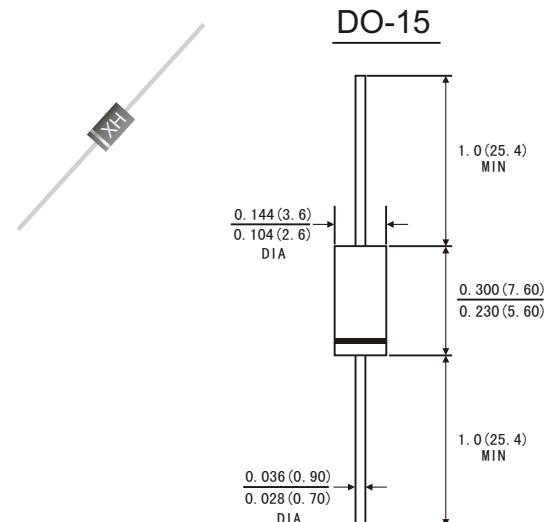


FEATURES

- Low leakage
- Low forward voltage drop
- High current capability
- High current surge
- High reliability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.39 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

	Symbols	FR 201	FR 202	FR 203	FR 204	FR 205	FR 206	FR 207	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at TA=55 °C	I _(AV)				2.0				Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				60				Amps
Maximum Instantaneous Forward Voltage at 2.0 A	V _F				1.2				Volts
Maximum DC Reverse Current	TA=25°C	I _R	5.0						μA
at rated DC blocking voltage	TA=100°C		100						
Maximum reverse recovery time (Note1)	t _{rr}		150		250		500		ns
Typical junction capacitance (Note2)	C _J			30					pF
Operating junction and storage temperature range	T _J T _{TSG}				-65 to +150				°C

Note: 1. Test conditions: I_f=0.5A, I_R=1.0A, I_{RR}=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts D.C.



星合电子
XINGHE ELECTRONICS

FR201 THRU FR207

FAST RECOVERY RECTIFIER
Reverse Voltage: 50 to 1000 Volts
Forward Current: 2.0 Amperes

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

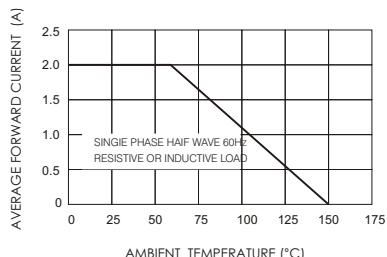


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

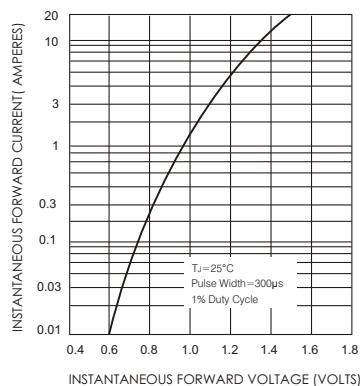
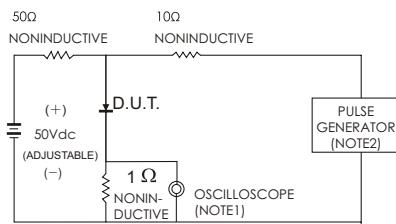


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:
1.Rise Time=7ns max. input Impedance=1 megohm 22pF
2.Rise Time=10ns max. source Impedance= 50 ohms

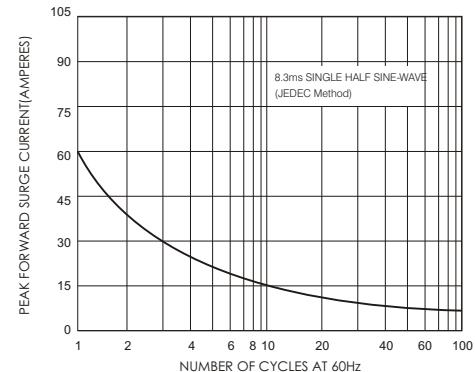


FIG.4-TYPICAL JUNCTION CAPACITANCE

