-WILLAS-



FAST RECOVERY RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

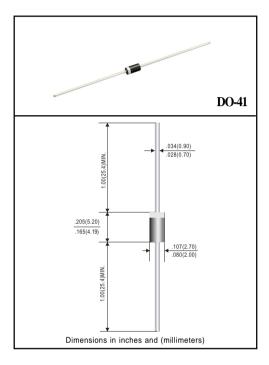
- * Fast switching
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High reliability
- * ESD Protection>15 Kilovolts
- * RoHS product for packing code suffix "G" Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FR101	FR102	FR103	FR104	FR105	FR105P	FR106	FR107	FR107P	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	600	800	1000	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	400	560	700	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	600	800	1000	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0								Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30								Amps	
Typical Junction Capacitance (Note 2)	CJ	15								pF	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150								٥C	

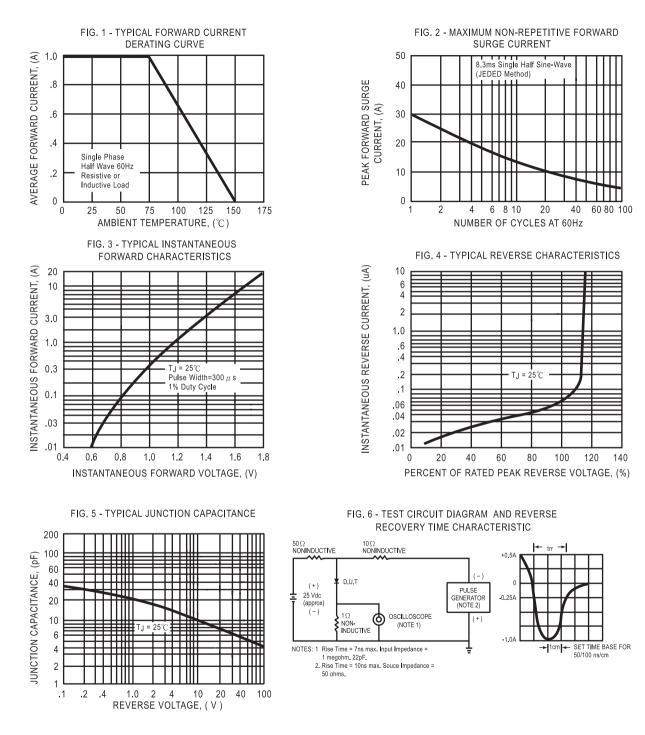
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FR101	FR102	FR103	FR104	FR105	FR105P	FR106	FR107	FR107P	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3								Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0									uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at TL = 55°C	lR IR	100									uAmps
Maximum Reverse Recovery Time (Note 1)	trr		15	50		250	150	50	00	250	nSec

NOTES : 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (FR101 THRU FR107)



WILLAS ELECTRONIC CORP.