

SHENZHEN HAOLIN ELECTRONICS TECHNOLOGY CO., LTD

DO-41 Plastic-Encapsulate Transistors

FR101 THRU FR107

VOLTAGE RANGE CURRENT 50 to 1000 Volts 1.0 Ampere

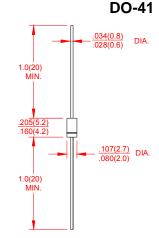
FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:

 260° C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings 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	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNITS
Maximum Repetitive 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 T_A = 75 $^{\circ}$ C	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	30							Amps
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	1.3							Volts
Maximum DC Reverse Current at Rated $T_A = 25$		5.0							μА
DC Blocking Voltage $T_A = 10$	00℃ I _R	100							
Maximum Reverse Recovery Time (Note 3) T _J =25 °C	trr	150				250	500		ns
Typical Junction Capacitance (Note 1)	C_{J}	15					pF		
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	50					°C/W		
Operating Junction Temperature Range	T_{J}	(-55 to +150)						$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	T_{STG}	(-55 to +150)						$^{\circ}$ C	

Notes:

- 1.Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volits.
- 2 Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3.Reverse Recovery Test Conditions:If=0.5A,Ir=1.0A,Irr=0.25A



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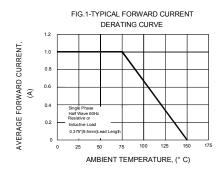
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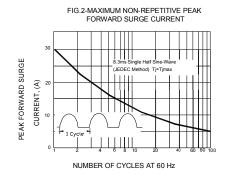
FR101 THRU FR107

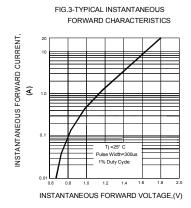
VOLTAGE RANGE CURRENT

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RATING AND CHRACTERISTIC CURVES FR101 THRU FR107







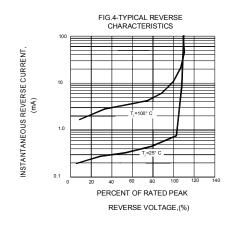
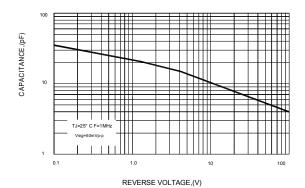
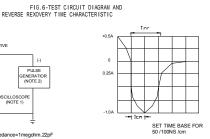


FIG.5-TYPICAL JUNCTION CAPACITANCE



NOTE: 1.Rise Time =7ns max.lnput Impedance=1megohm.22pF 2.Rise time=10ns max.Source Impedance=50 ohms



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