

FAST RECOVERY GLASS PASSIVATED RECTIFIER

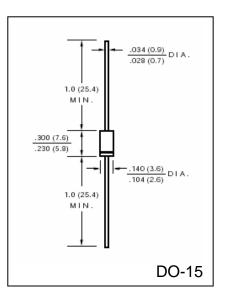
ED201C TUDU	FR207G	VOLTAGE RANGE	50 to 1000 Volts		
ГК2010 ІПКО		CURRENT	2.0 Ampere		

FEATURES

- Fast switching speed for high efficiency
- Glass passivated chip junction
- Low reverse leakage
- High forward surge current capacity
- High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.014 ounce, 0.39 gram



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%

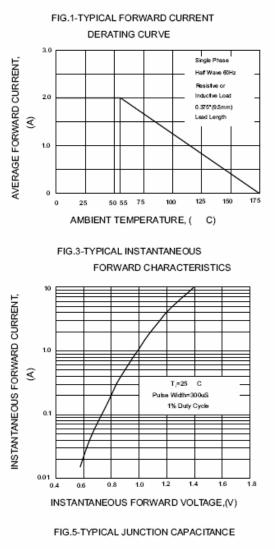
	SYMBOLS	FR 201G	FR 202G	FR 203G	FR 204G	FR 205G	FR 206G	FR 207G	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length At $T_c = 55^{\circ}C$	I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	70						Amps	
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.3						Volts	
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{O}C$	т	5.0						μA	
DC Blocking Voltage per element $T_A = 125 \ ^{O}C$	I _R	500							
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$	t _{rr}	150		250	0 500		nS		
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	20						pF	
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40						^o C/W	
Operating Junction Temperature Range	TJ	(-65 to +175)						°C	
Storage Temperature Range	T _{STG}	(-65 to +175)						°C	

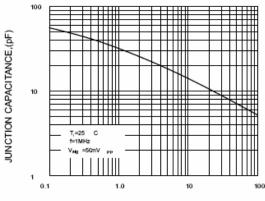
Notes:

1. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

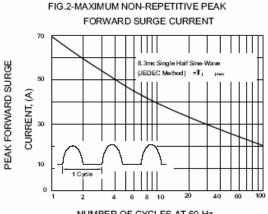


RATINGS AND CHARACTERISTIC CURVES FR201G THRU FR201G





REVRESE VOLTAGE,(V)



NUMBER OF CYCLES AT 60 Hz

FIG.4-TYPICAL REVERSE CHARACTERISTICS

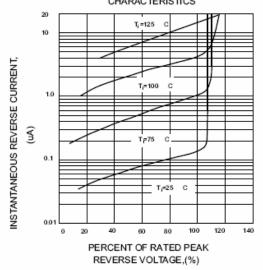


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

