



Fast Recovery Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







MECHANICAL DATA

Case: DO-204AC (DO-15) **DO-204AC (DO-15)**

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Weight: 0.4g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	FR 201	FR 202	FR 203	FR 204	FR 205	FR 206	FR 207	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	2.0						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	60					Α		
Maximum instantaneous forward voltage (Note 1) @ 2 A	V _F	1.2				V			
Maximum reverse current @ rated VR $T_J=25$ °C $T_J=125$ °C	I _R	5 150					μΑ		
Maximum reverse recovery time (Note 2)	Trr	150 250 500				00	ns		
Typical junction capacitance (Note 3)	Cj	30					pF		
Typical thermal resistance	$egin{array}{c} R_{ heta JC} \ R_{ heta JA} \ \end{array}$	5 18 60						°C/W	
Operating junction temperature range	TJ	- 55 to +150						οС	
Storage temperature range	T _{STG}	- 55 to +150						οС	

Note 1: Pulse test with PW=300 µs, 1% duty cycle

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V DC



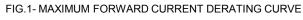
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND PACKAGE		PACKING			
		CODE					
ED00	A0		DO-15	1,500 / Ammo box			
FR20x (Note 1)	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel			
	B0		DO-15	1,000 / Bulk packing			

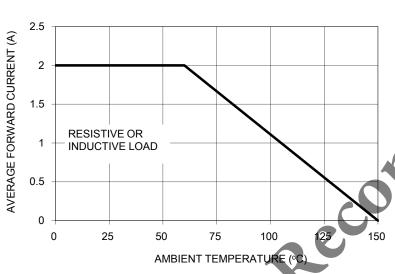
Note 1: "x" defines voltage from 50V (FR201) to 1000V (FR207)

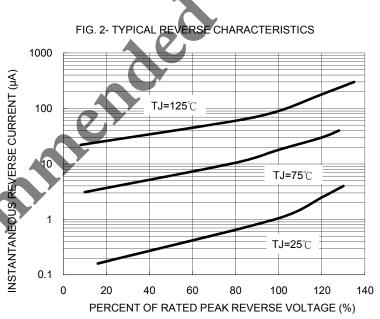
EXAMPLE								
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION				
FR201 A0	FR201	A0						
FR201 A0G	FR201	A0	G	Green compound				

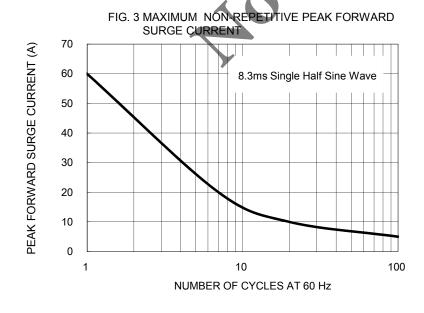
RATINGS AND CHARACTERISTICS CURVES

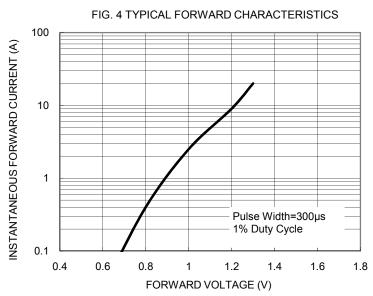
(TA=25°C unless otherwise noted)















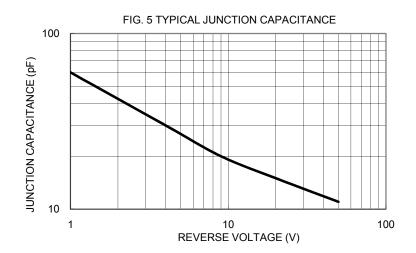
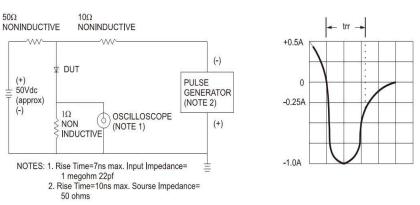
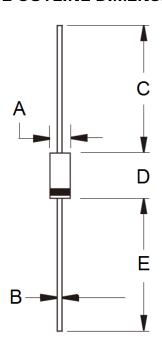


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS



MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound

YWW = Date Code
F = Factory Code





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