



SURFACE MOUNT FAST RECOVERY RECTIFIER

REVERSE VOLTAGE -600 Volts FORWARD CURRENT - 1.5 Amperes

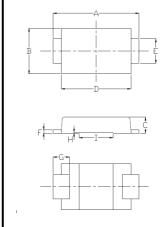
F3-D

FEATURES

- · Fast switching for high efficiency
- · Glass passivated chip
- For surface mounted applications
- · Low forward voltage drop and high current capability
- · Low reverse leakage current

MECHANICAL DATA

- Case: JEDEC DO-221AC
- Case Material: "Green" Molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020C
- Lead Free Finish, RoHS compliant
- Marking: FRS2JD
- Weight: 0.035 grams (Approximate)



F3-D						
DIM	MIN TYP MAX					
Α	4.80	5.20	5.60			
В	2.25	2.80	2.95			
С	0.90	1.00	1.10			
D	3.95	4.20	4.60			
Е	1.25	1.50	1.65			
F	0.15	0.20	0.40			
G	0.75	1.00	1.50			
Н	0.025	0.05	0.075			
l	1.90	2.05	2.20			
All dimension in millimeter						

REV. 0, Jul.-2015, KSGP11

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	V
Maximum DC blocking voltage		V _{DC}	600	V
Maximum Average rectified forward current @Tc = 120°C		I _(AV)	1.5	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50	
Operating and Storage temperature range		T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 1.5A	T _J = 25℃	V _F		1.3	V
Reverse leakage current	V _R = 600V	T _J = 25℃ T _J =125℃	I _R		5 200	uA
Typical junction capacitance (Note 2)		CJ	15		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
	RthJ _C	16	
Typical thermal resistance (Note 3,4)	$RthJ_L$	14	°C/W
	RthJa	55	

DYNAMIC ELECTRICAL CHARACTERISTICS

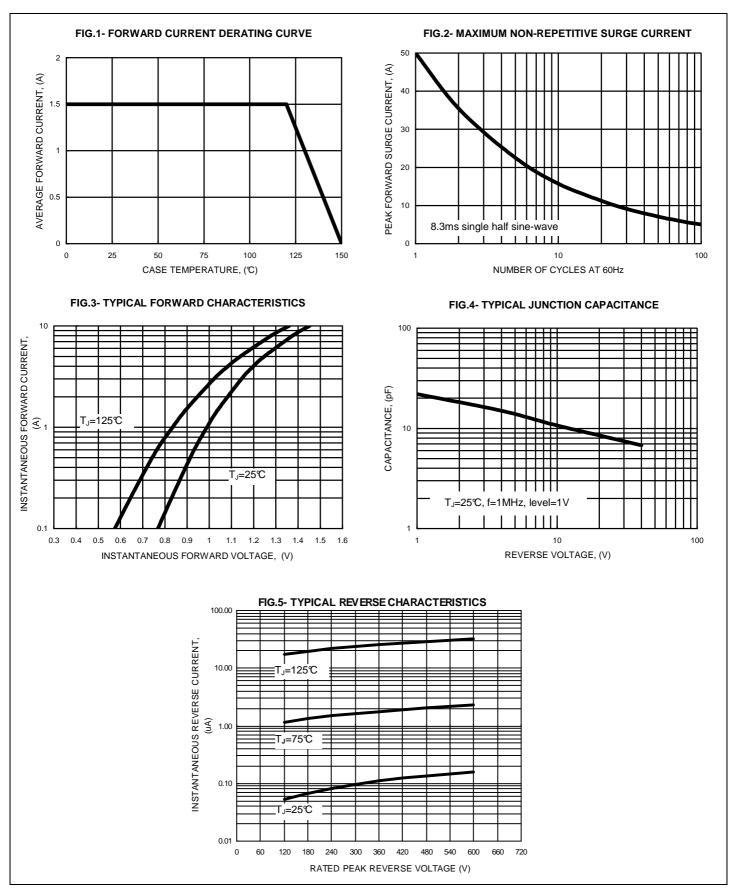
PARAMETER	TEST CONDITION	SYMBOL	MAX		UNIT
Reverse Recovery Time	I _F =0.5A , I _R =1.0A , I _{rr} =0.25A	Trr	250		nS
Note:				REV. 0. Jul2015. K	SGP11

(1) 300 us pulse width, 2% duty cycle

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V_{DC}.
- (3) Thermal Resistance Junction to Case and Ambient
- (4) Thermal Resistance test performed in accordance with JESD-50

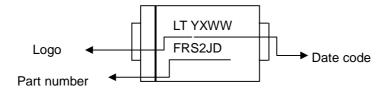
RATING AND CHARACTERISTIC CURVES FRS2JD







Marking Information:



Packaging Information:

DEVICE	Q'TY/REEL	REEL DIA.	Q'TY/BOX	Q'TY/CARTON
	(PCS)	(INCH)	(PCS)	(PCS)
FRS2JD	10000	13	10000	120K



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