



SURFACE MOUNT ULTRA FAST RECTIFIER

REVERSE VOLTAGE - 600 Volts FORWARD CURRENT - 2 Amperes

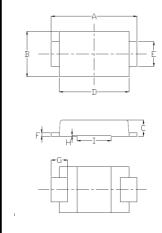
F3-D

FEATURES

- Ultra 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: FUS2JD
- Weight: 0.035 grams (Approximate)



F3	-D				
MIN TYP MAX					
4.80	5.20	5.60			
2.25	2.80	2.95			
0.90	1.00	1.10			
3.95	4.20	4.60			
1.25	1.50	1.65			
0.15	0.20	0.40			
0.75	1.00	1.50			
0.025	0.05	0.075			
1.90	2.05	2.20			
All dimension in millimeter					
	4.80 2.25 0.90 3.95 1.25 0.15 0.75 0.025 1.90	4.80 5.20 2.25 2.80 0.90 1.00 3.95 4.20 1.25 1.50 0.15 0.20 0.75 1.00 0.025 0.05 1.90 2.05			

REV. 1, Aug.-2015, KSGP15

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 = 130°C	I _(AV)	2	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50	Α
Operating and Storage temperature range		T_{J}, T_{STG}	-55 ~ + 150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	NDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 2A	T _J = 25℃	V _F		1.7	V
Reverse leakage current	V _R = 600V	T _J = 25℃ T _J =100℃	I _R		5 100	uA
Typical junction capacitance (Note 2)		CJ	13		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
	RthJ _C	5	
Typical thermal resistance (Note 3)	$RthJ_L$	8	°C/W
	$RthJ_{a}$	50	

DYNAMIC ELECTRICAL CHARACTERISTICS

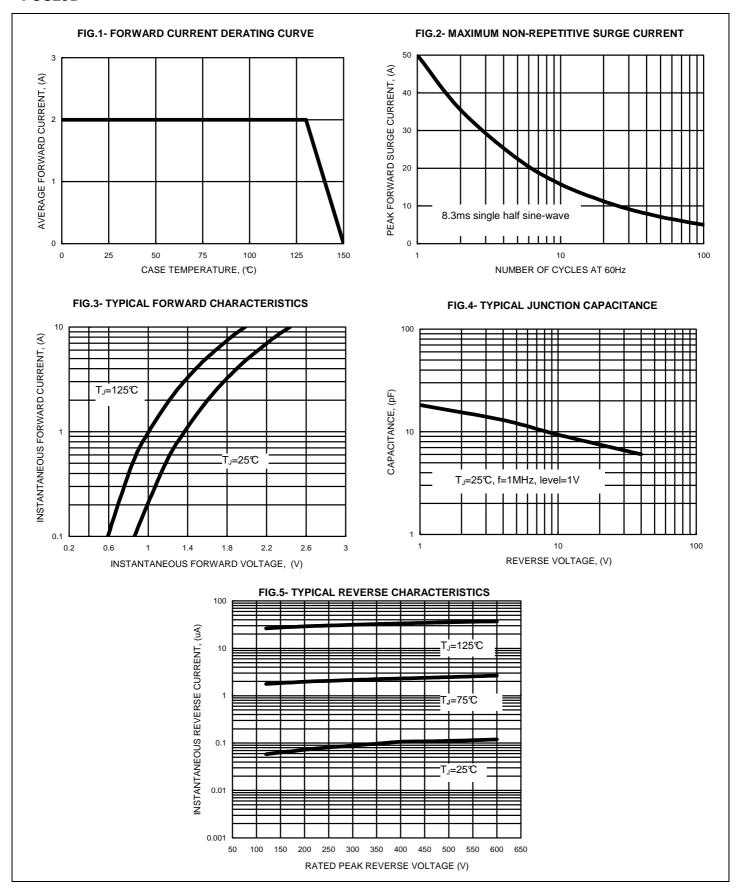
PARAMETER	TEST CONDITION	SYMBOL	MAX	UNIT
Reverse Recovery Time	I_F =0.5A , I_R =1.0A , I_{rr} =0.25A	Trr	75	nS

- (1) 300us pulse width, 2% duty cycle
- (2) Measured at 1.0MHz and applied reverse voltage of $4.0V_{DC}$
- (3) Thermal Resistance test performed in accordance with JESD-51.

Note:

RATING AND CHARACTERISTIC CURVES FUS2JD

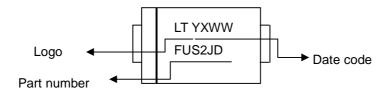




MARKING AND PACKAGING INFORMATION FUS2JD



Marking Information:



Packaging Information:

DEVICE	Q'TY/REEL	REEL DIA.	Q'TY/BOX	Q'TY/CARTON
	(PCS)	(INCH)	(PCS)	(PCS)
FUS2JD	10000	13	10000	120K



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.