LITEON LITE-ON SEMICONDUCTOR

SURFACE MOUNT SUPER FAST RECTIFIER

FEATURES

- Glass passivated chip
- Super fast switching for high efficiency
- 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 : FES2JD
- Weight: 0.035 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE F	RATINGS
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PAR	AMETER		SYMBOL	VA	UNIT		
Maximum repetitive peak reverse voltage			V _{RRM}	600		V	
Maximum DC blocking voltage			V _{DC}	600		V	
Maximum Average rectified forward current @Tc = 110°C			I _(AV)	2		A	
Peak forward surge 8.3ms single half sine-wave superimposed on rated load			I _{FSM}	50		А	
Operating and Storage temperature range			$T_{J,}T_{STG}$	-55 ~ +150		°C	
STATIC ELECTRICAL C	HARACTER	RISTICS					
PARAMETER	TEST CONDITION		SYMBOL	ТҮР	MAX	UNIT	
Forward voltage (Note 1)	$I_F = 2A$	T _J = 25℃	V _F		1.30	V	
Reverse leakage current	V _R = 600V	T」= 25℃ T」=125℃	I _R		5 350	uA	
Typical junction capacitance (Note 2)			CJ	20		pF	
THERMAL CHARACTE	RISTICS						
PARAMETER			SYMBOL	ТҮР		UNIT	
Typical thermal resistance (Note 3,4)			RthJ _c	16		°C/W	
DYNAMIC ELECTRICA	L CHARACT	ERISTICS				4	
PARAMETER	TEST	CONDITION	SYMBOL	МАХ		UNIT	
Reverse Recovery Time	I _F =0.5A , I _R =1	.0A , I _{rr} =0.25A	Trr	35		nS	
Note :					REV. 0, Jul201	REV. 0, Jul2015, KSGP08	

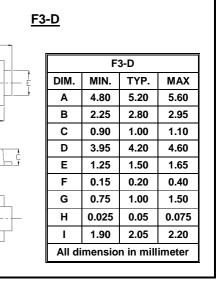
(1) 300us pulse width, 2% duty cycle

(2) Measured at 1.0MHz and applied reverse voltage of $4.0V_{DC}$.

(3) Thermal Resistance Junction to Case and Ambient

(4) Device mounted on 14.9mm x 12.08 mm x 1.49 mm Aluminum Heatsink



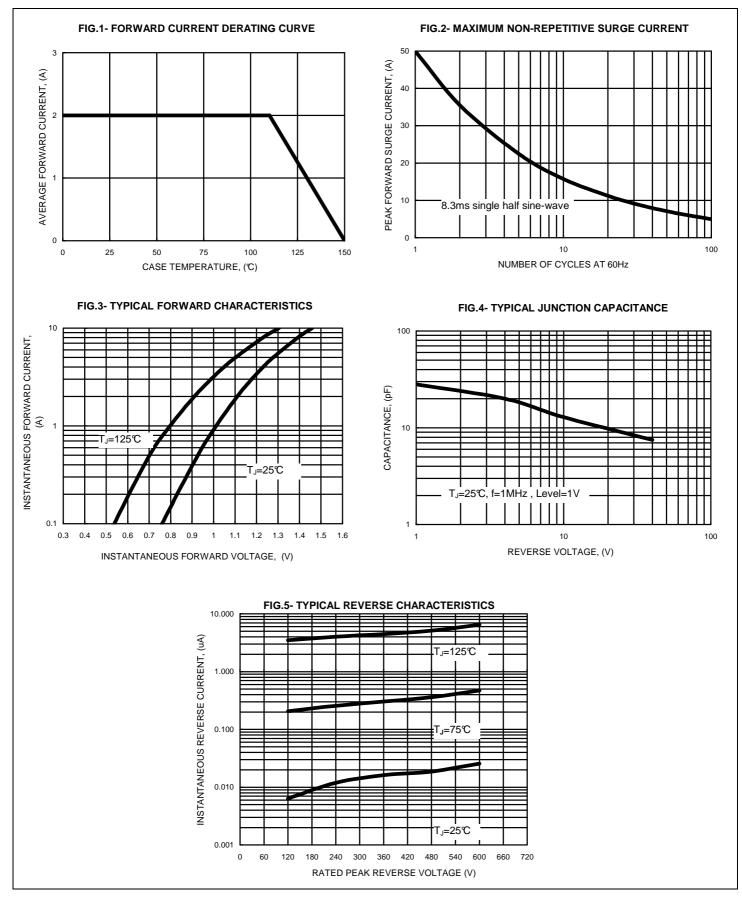


FES2JD



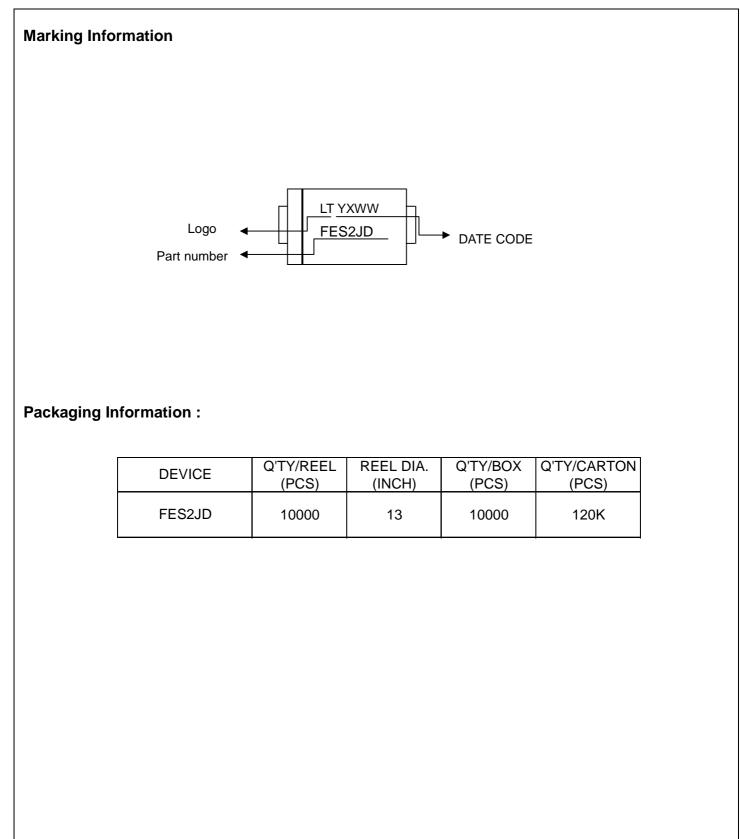
RATING AND CHARACTERISTIC CURVES FES2JD

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MARKING AND PACKAGING INFORMATION FES2JD





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