

FES2JD(LS)

SURFACE MOUNT SUPER FAST RECTIFIER

REVERSE VOLTAGE - 600 Volts FORWARD CURRENT - 2 Amperes

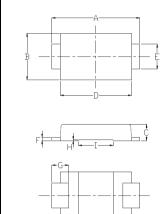
F3-D

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
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- · Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: JEDEC DO-221AC
- Package Material: "Green" Molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free"
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish.) (63)
- Marking: FES2JD
- 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		
E	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		
I	1.90	2.05	2.20		
All dimension in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	600	V
Maximum DC blocking voltage		VDC	600	V
Maximum Average rectified forward current	@T _C = 110°C	I _(AV)	2	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		IFSM	50	Α
Operating and Storage temperature range		TJ, TSTG	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 4)	I _F = 2A	T _J = 25°C	VF		1.30	V
Reverse leakage current	V _R = 600V	T _J = 25°C T _J =125°C	IR		5 350	uA
Typical junction capacitance (Note 5)		Ст	20		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 6, 7)	RthJC	16	°C/W

DYNAMIC ELECTRICAL CHARACTERISTICS

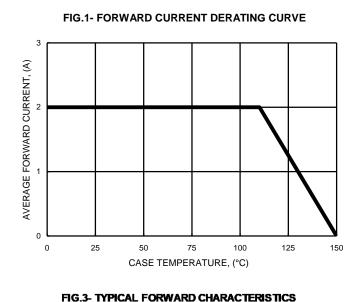
PARAMETER	TEST CONDITION	SYMBOL	MAX	UNIT
Reverse Recovery Time	I _F =0.5A , I _R =1.0A , I _{rr} =0.25A	trr	35	ns

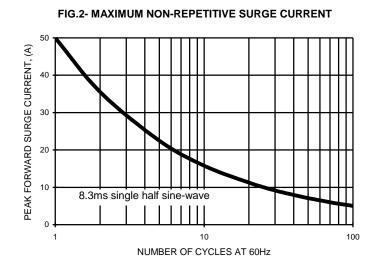
Note:

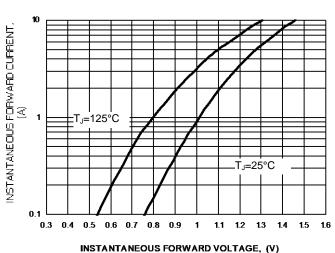
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- Measured at 1.0MHz and applied reverse voltage of 4.0VDC.
- 6. Thermal Resistance Junction to Case and Ambient.
- 7. Device mounted on 14.9mm x 12.08 mm x 1.49 mm Aluminum Heatsink.

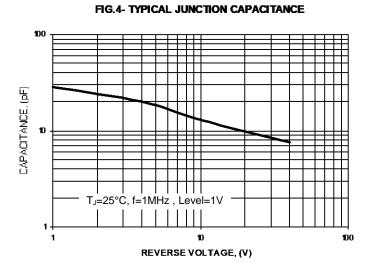


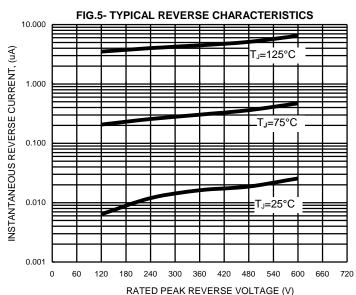
RATING AND CHARACTERISTIC CURVES FES2JD(LS)









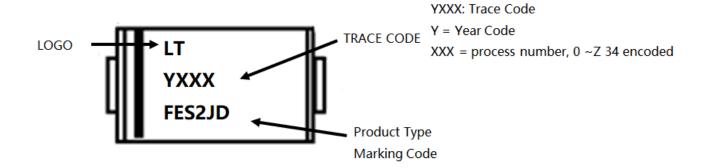




Ordering Information:

Part Number	Dookogo	Packing		
Fait Number	Package	Qty.	Carrier	
FES2JD_HF	F3-D	10000	Tape & Reel	

Marking Information:





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