



SURFACE MOUNT FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE FORWARD CURRENT

F1A

600 Volts1.0 Ampers

FEATURES

- · Fast switching for high efficiency
- · For surface mounted applications
- · Glass passivated chip
- · Low reverse leakage current
- · Low forward voltage drop
- · High current capability
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: JEDEC DO-219AA
- Package Material: "Green" molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Terminals: Lead Free Plating (Matte Tin Finish.)
- Marking code: U1J
- Weight: 16.5 mg(Approximate)

F1A				
DIM.	MIN.	MAX.		
Α	3.50	3.80	3.90	
В	1.70	1.90	2.00	
С	0.81	1.18	1.20	
D	2.70	2.80	2.90	
Е	0.80	1.00	1.35	
F	0.05	0.15	0.30	
G	0.35	0.60	0.85	
Н	0.03	0.07	0.10	
I	0°	5°	8°	
All dimension in millimeter.				

REV-2, Oct-2021, KSEP07

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATING

ABOULUTE IVIIIINO					
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=90°C	I _(AV)	1.0	Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30	А	
Operating and Storage temperature range		T _{J,} T _{STG}	-55 ~ + 150	°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage	I _F =1.0A	T _J =25°C	V _F		1.7	V
Leakage current	V _R =600V	T _J =25°C T _J =100°C	I _R	 	5 100	uA
Typical junction capacitance (Note 4)			C _J	18		pF

THERMAL PERFORMANCE

Note:

PARAMETER	SYMBOL	ТҮР	UNIT
	$RthJ_A$	85	
Typical Thermal Resistance (Note 5)	$RthJ_L$	35	°C/W
	$RthJ_C$	40	

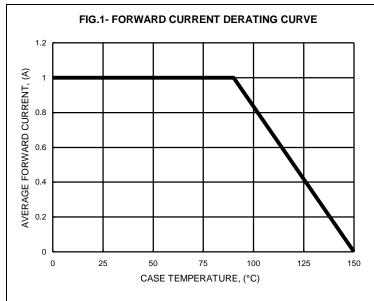
DYNAMIC ELECTRICAL CHARACTERISTICS

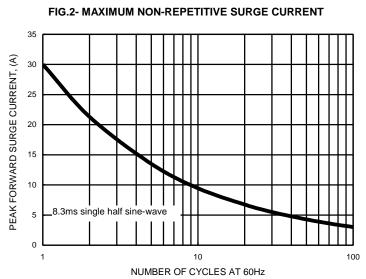
PARAMETER	TEST CONDITION	SYMBOL	MAX	UNIT
Reverse recovery time	I _F =0.5A ,I _{RR} =0.25A,I _R =1.0A	T_RR	75	nS

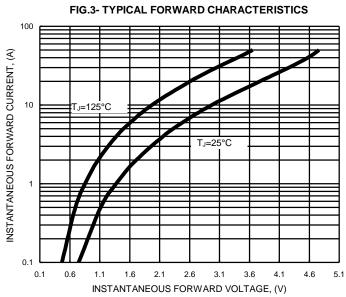
1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

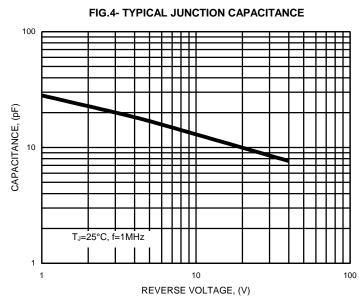
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 5. Thermal resistance test performed in accordance with JESD-51.

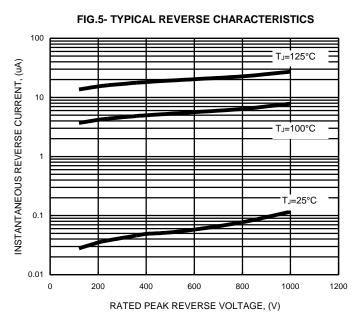
RATING AND CHARACTERISTIC CURVES FUS1JE









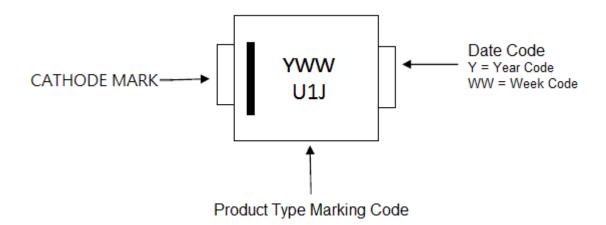




Ordering Information:

Part Number	Dookogo	Packing		
Part Number	Package	Qty.	Carrier	
FUS1JE-7	F1A	2500	Tape & Reel	

Marking Information:





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