UD1006FR

ON Semiconductor®

Planar Ultrafast Rectifier Low VF type, 10A, 600V, 1.3V, TO-220F-2FS

http://onsemi.com

Features

- · VRRM=600V
- t_{rr} =60ns(typ) (I_F=0.5A, I_R=1A)
- VF=1.3V max (IF=10A)
- · Halogen free compliance

Specifications

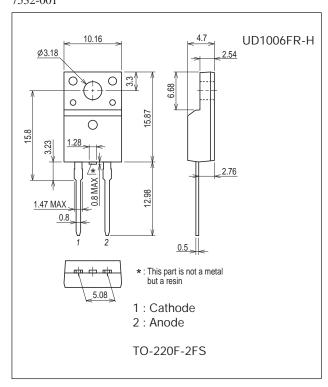
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		600	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		600	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=79°C	10	А
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) Package limited	18	Α
Surge Forward Current	I _{FSM}	Sine wave 10ms 1pulse	120	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7532-001



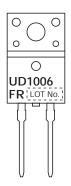
Product & Package Information

• Package : TO-220F-2FS

• JEITA, JEDEC : SC-67

• Minimum Packing Quantity : 50pcs./magazine

Marking



Electrical Connection



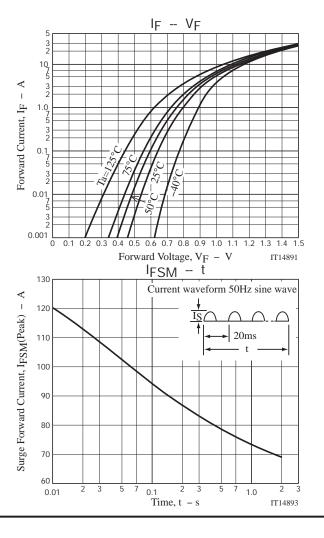
September, 2013

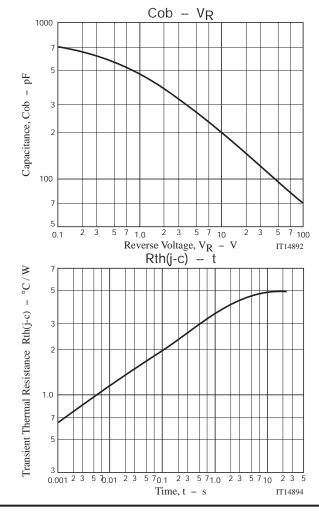
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		Unit
	Symbol	Conditions	max	Offic		
Reverse Voltage	VR	I _R =1mA	600			V
Forward Voltage	VF	I _F =10A		1.1	1.3	V
Reverse Current	IR	V _R =600V			100	μΑ
Reverse Recovery Time	t _{rr} 1	I _F =10A, di / dt=100A/μs		100	150	ns
Reverse Recovery Time	t _{rr} 2	IF=0.5A, IR=1A		60		ns
Thermal Resistance Rth(j-c)		Junction -Case : Smoothed DC			4.9	°C/W

Ordering Information

Device	Package	Shipping	memo	
UD1006FR-H	TO-220F-2FS	50pcs./magazine	Pb Free and Halogen Free	





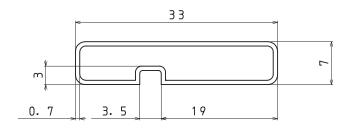
Magazine Specification

UD1006FR-H

1. Packing Format

Package Name	Magazine Name	Maximum Number of devices contained (pcs)			Packing format		
I a o n a g o Mamo	Magazzao Idamo		Inner box	Outer box	Inner BOX	Outer BOX	
TO-220F-2FS	TO-220F	50	1, 000	4,000	SPD-0V0001 20 magazines contained Dimensions:mm (external) 568×150×55	SPT-081029 4 inner boxes contained Dimensions:mm (external) 590×225×178	

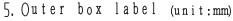
2. Magazine dimensions (unit:mm)



Tolerance=±0.3mm Thickness=0.7 \pm 0.2mm Length = 532.5 ± 2 mm Material = PVC (Antistatic treatment)

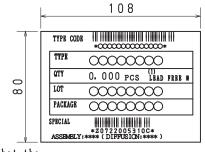
3. Storage method to magazine





It is a label at the time of factory shipments. The form of a label may change in physical distribution process.



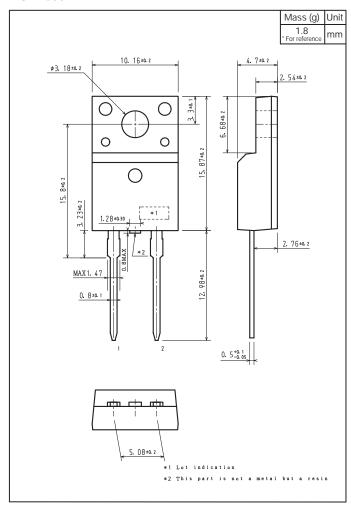


The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label	JEITA Phase			
LEAD FREE	3	JEITA	Phase	3A

Outline Drawing

UD1006FR-H



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