



UD1006FR — Diffused Junction Silicon Diode

Low VF Switching Diode

Features

- $V_{RRM}=600V$
- $V_F=1.3V$ max ($I_F=10A$)
- $t_{rr}=60ns$ (typ) ($I_F=0.5A$, $I_R=1A$)
- Halogen free compliance

Specifications

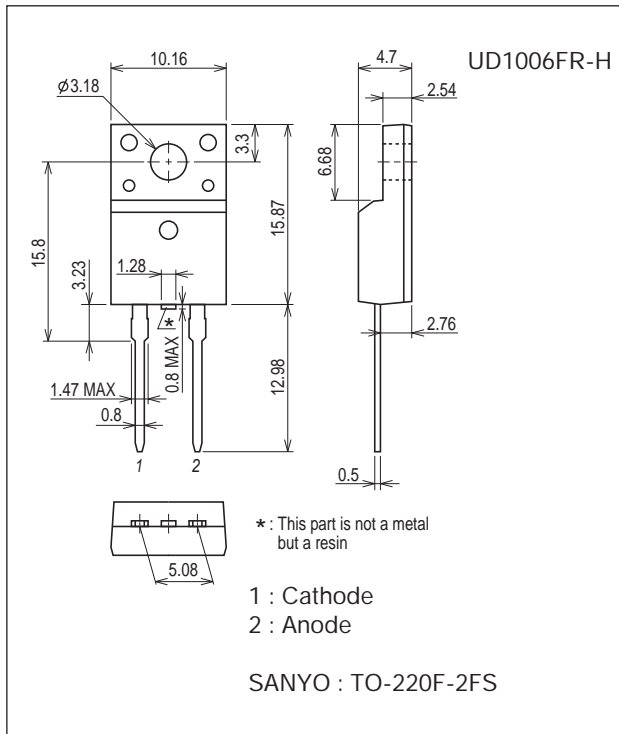
Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		600	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		600	V
Average Output Current	I_O	50Hz resistive load, Sine wave $T_c=79^\circ C$	10	A
R.M.S Forward Current	$I_F(RMS)$	$T_c=25^\circ C$ (SANYO's ideal heat dissipation condition) Package limited	18	A
Surge Forward Current	I_{FSM}	Sine wave 10ms 1pulse	120	A
Junction Temperature	T_j		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Package Dimensions

unit : mm (typ)

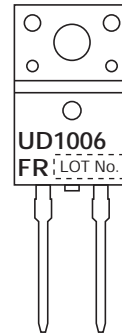
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Product & Package Information

- Package : TO-220F-2FS
- JEITA, JEDEC : SC-67
- Minimum Packing Quantity : 50pcs./magazine

Marking



Electrical Connection



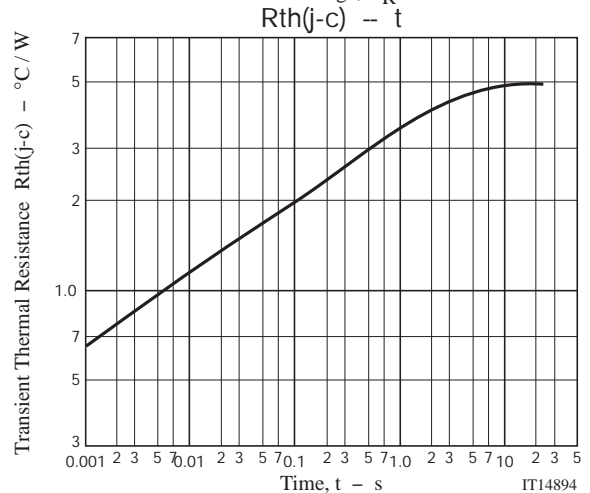
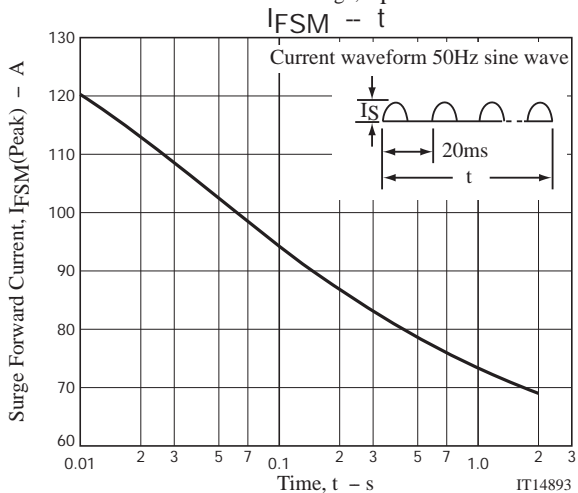
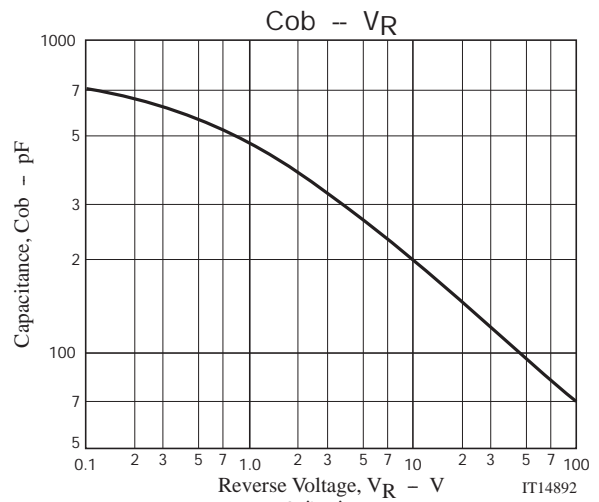
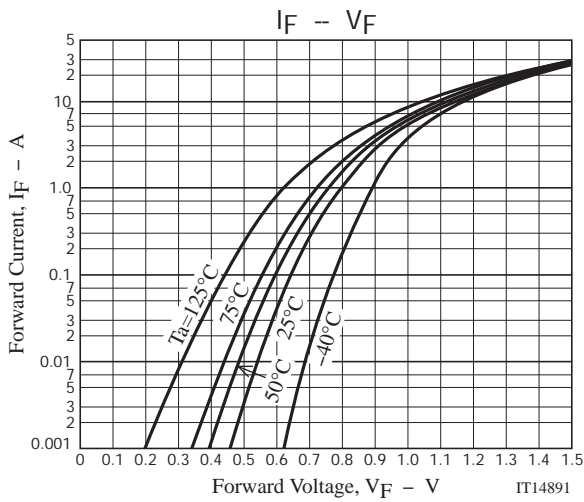
UD1006FR

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	600			V
Forward Voltage	V_F	$I_F=10A$		1.1	1.3	V
Reverse Current	I_R	$V_R=600V$			100	μA
Reverse Recovery Time	t_{rr1}	$I_F=10A, di/dt=100A/\mu s$		100	150	ns
	t_{rr2}	$I_F=0.5A, I_R=1A$		60		ns
Thermal Resistance	$R_{th(j-c)}$	Junction -Case : Smoothed DC			4.9	$^{\circ}C/W$

Ordering Information

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



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