

SANYO Semiconductors DATA SHEET

UD2006LS-SB

Diffused Junction Silicon Diode Low VF Switching Diode

Features

- V_F=1.4V max. (I_F=20A)
- VRRM=600V
- $t_{rr}=60ns$ (typ.)

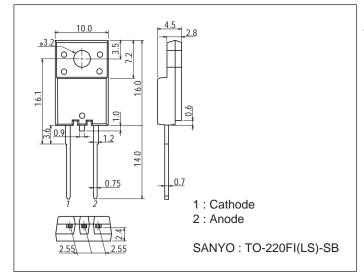
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM	DC bias	600	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=32°C	20	А
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) Package limited, DC	24	А
Surge Forward Current	IFSM	50Hz sine wave 1pulse	180	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7510-001



Product & Package Information : TO-220FI(LS)

• Package

• JEITA, JEDEC

: SC-67, SOT-186A, TO-220F,

TO-220FULLPACK Transistor

• Minimum Packing Quantity

: 100pcs./bag, 50 pcs./magazine

Marking

Electrical Connection

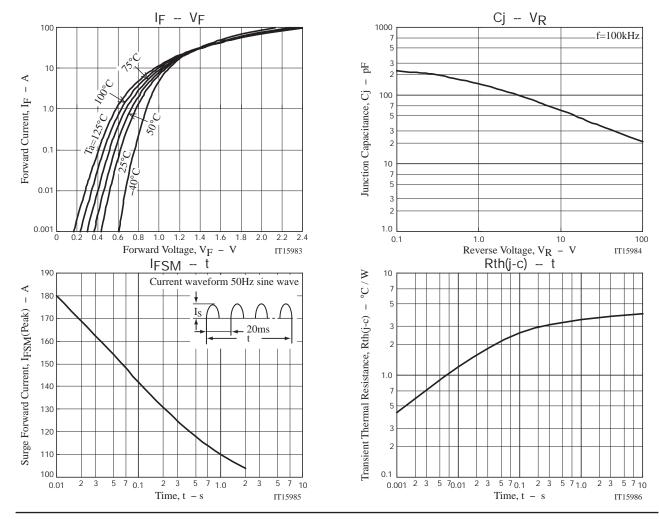




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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	IR=1mA	600			V
Forward Voltage	VF	IF=20A		1.2	1.4	V
Reverse Current	IR	V _R =600V			20	μΑ
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/µs		75	150	ns
	t _{rr} 2	IF=0.5A, IR=1A		60		ns
Thermal Resistance	Rth(j-c)	Junction -Case : Smoothed DC			4	°C / W



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