

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

UD1006LS-SB5 — Diffused Junction Silicon Diode Low VF Switching Diode

Features

- · High breakdown voltage (VRRM=600V).
- · High reliability.
- · One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- · Low VF.
- · Low noise at the time of reverse recovery.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		600	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		600	V
Average Output Current	lo		10	А
R.M.S Forward Current	I _F (RMS)		18	А
Surge Forward Current	I _{FSM}	Sine wave 10ms 1pulse	120	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

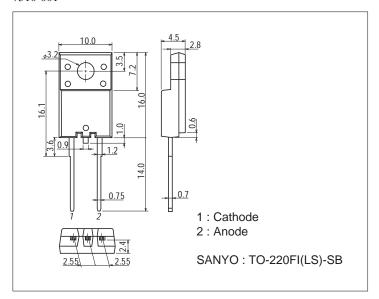
Electrical Characteristics at Ta=25°C

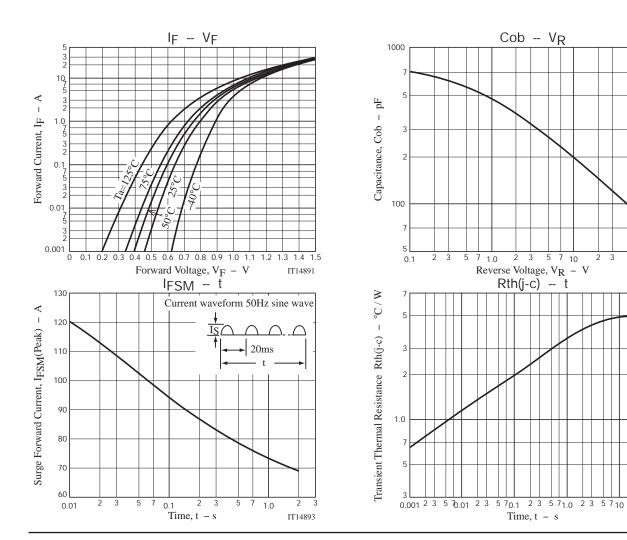
Parameter	Symbol	Conditions	Ratings			- Unit
			min	typ	max	O I III
Reverse Voltage	VR	I _R =1mA	600			V
Forward Voltage	VF	IF=10A		1.15	1.3	V
Reverse Current	IR	V _R =600V			20	μΑ
Reverse Recovery Time	t _{rr} 1	I _F =10A, di / dt=100A/μs		100	150	ns
	t _{rr} 2	IF=0.5A, IR=1A		60		ns
Thermal Resistance	Rth(j-c)	Junction -Case : Smoothed DC			4.9	°C / W

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Package Dimensions

unit : mm (typ) 7510-001





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