

SANYO Semiconductors DATA SHEET

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.
- $\cdot \ \text{Low} \ V_{F}.$
- 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	V _{RRM}		600	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		600	V
Average Output Current	lo		10	А
R.M.S Forward Current	I _F (RMS)		18	А
Surge Forward Current	IFSM	Sine wave 10ms 1pulse	120	Α
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	Unit
Reverse Voltage	VR	IR=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	IF=10A, di / dt=100A/µs		100	150	ns
	t _{rr} 2	I _F =0.5A, I _R =1A		60		ns
Thermal Resistance	Rth(j-c)	Junction -Case : Smoothed DC			4.9	°C / W

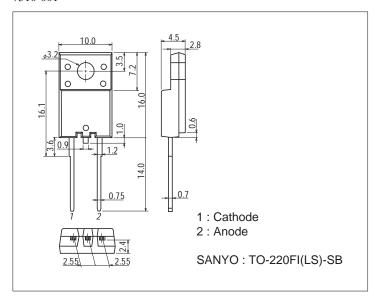
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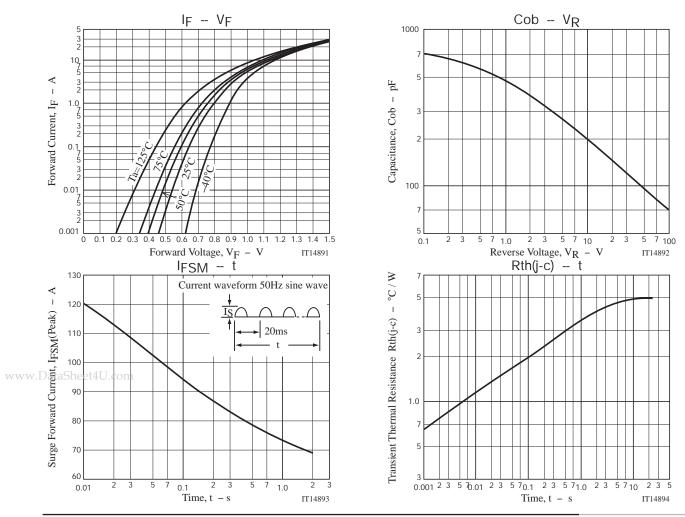
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Package Dimensions unit : mm (typ)

7510-001





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