

SANYO Semiconductors DATA SHEET

RD0506LS-SB — Diffused Junction Silicon Diode

Ultrahigh-Speed Switching Diode

Features

- High breakdown voltage (VRRM=600V).
- · High reliability.
- · Easy to be mounted, good heat dissipation.
- · Reverse recovery time is fast.
- · 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
Average Output Current	IO		5	А
Peak Output Current	IOP	PW≤100μs, duty cycle≤50%	20	А
Surge Forward Current	I _{FSM}	Sine wave, 10ms 1pulse	120	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

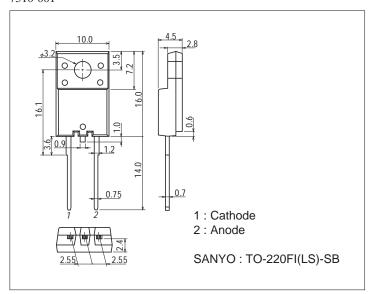
Electrical Characteristics at Ta=25°C

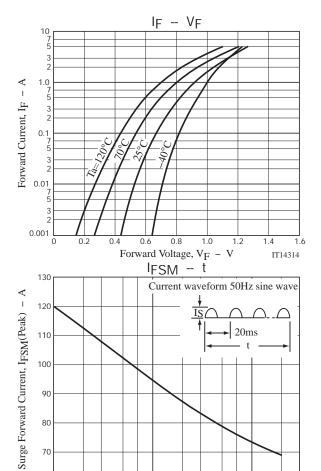
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Ullit
Reverse Voltage	٧R	I _R =1mA	600			V
Forward Voltage	VF	IF=5A		1.3	1.6	V
Reverse Current	IR	V _R =600V			50	μΑ
Reverse Recovery Time	t _{rr}	I _F =5A, di / dt=100A/μs			50	ns
Thermal Resistance	Rth(j-c)	Between the junction part and the case smoothing current			6.25	°C/W

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Package Dimensions

unit: mm (typ) 7510-001





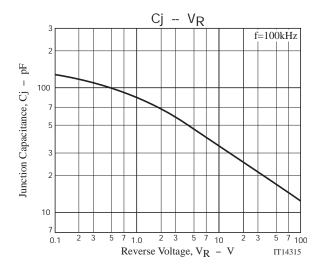
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