

SANYO Semiconductors DATA SHEET

RD1004LS-SB5 — Diffused

Diffused Junction Type Silicon Diode

Ultrahigh-Speed Switching Diode

Features

- High breakdown voltage (VRRM=400V).
- · High reliability.
- · Easy to be mounted, good heat dissipation.
- · Fast reverse recovery time.
- · 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		400	V
Non-repetitive Peak Reverse Voltage	VRSM		400	V
Average Output Current	lo		10	А
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) Package limited	12	А
Surge Forward Current	I _{FSM}	Sine wave, 10ms single pulse	120	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

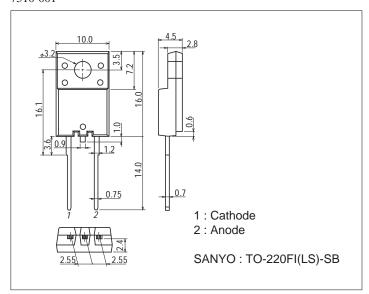
Electrical Characteristics at Ta=25°C

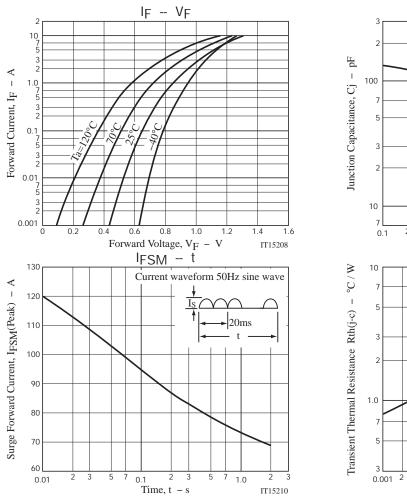
Parameter	Symbol	Conditions	Ratings			- Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =1mA	400			V
Forward Voltage	VF	IF=10A		1.3	1.5	V
Reverse Current	IR	V _R =400V			100	μΑ
Reverse Recovery Time	t _{rr} 1	I _F =10A, di / dt=100A/μs		44	50	ns
	t _{rr} 2	I _F =0.5A, I _R =1A		17		ns
Thermal Resistance	Rth(j-c)	Between the junction part and the case : smoothing current			6.25	°C / W

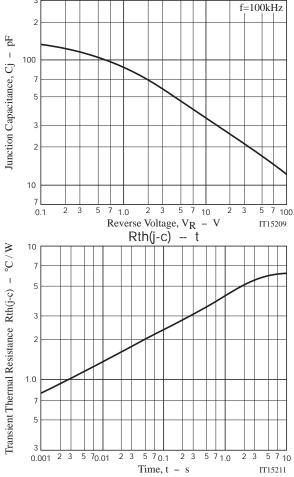
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Package Dimensions

unit : mm (typ) 7510-001







Cj - V_R

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