



SANYO Semiconductors

DATA SHEET

RD2004LS-SB5 — Diffused Junction Silicon Diode

Ultrahigh-Speed Switching Diode

Features

- High breakdown voltage ($V_{RRM}=400V$).
- High reliability.
- One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- Fast reverse recovery time.
- Low noise at the time of reverse recovery.

Specifications

Absolute Maximum Ratings at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		400	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		400	V
Average Output Current	I_O		20	A
Surge Forward Current	I_{FSM}	Sine wave, 10ms single pulse	180	A
Junction Temperature	T_j		150	$^{\circ}C$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}C$

Electrical Characteristics at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	400			V
Forward Voltage	V_F	$I_F=20A$		1.3	1.5	V
Reverse Current	I_R	$V_R=400V$			100	μA
Reverse Recovery Time	t_{rr1}	$I_F=10A, di/dt=100A/\mu s$		44	50	ns
	t_{rr2}	$I_F=0.5A, I_R=1A$		20		ns
Thermal Resistance	$R_{th(j-c)}$	Junction-Case : Smoothed DC			4.0	$^{\circ}C/W$

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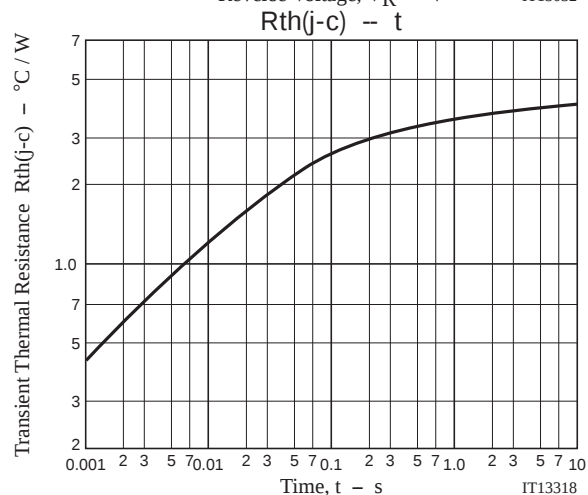
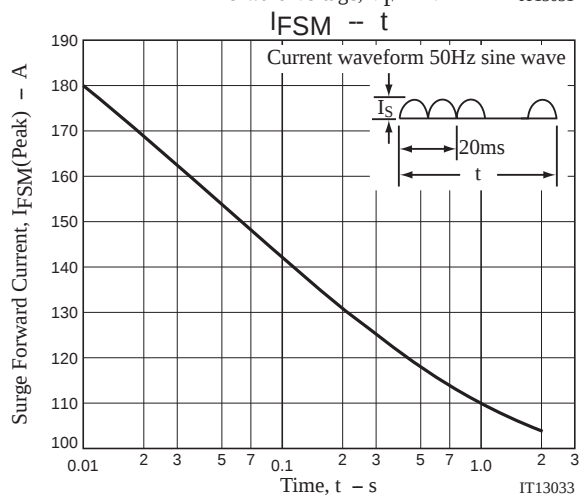
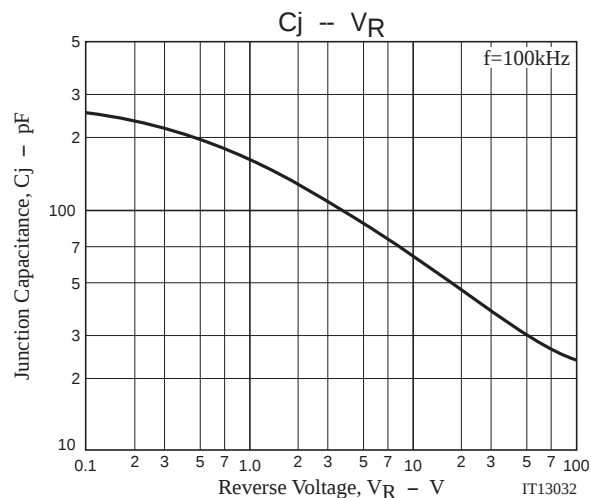
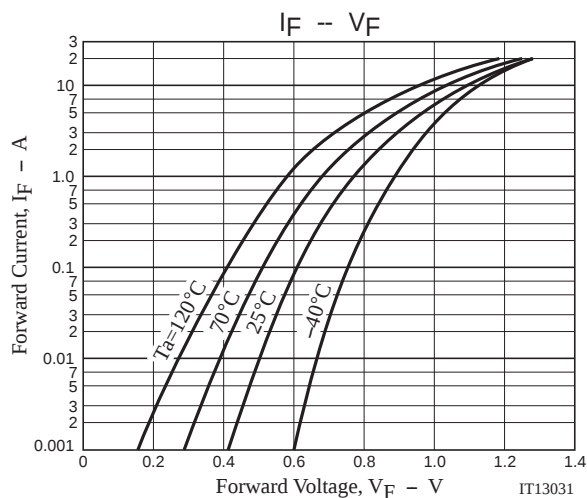
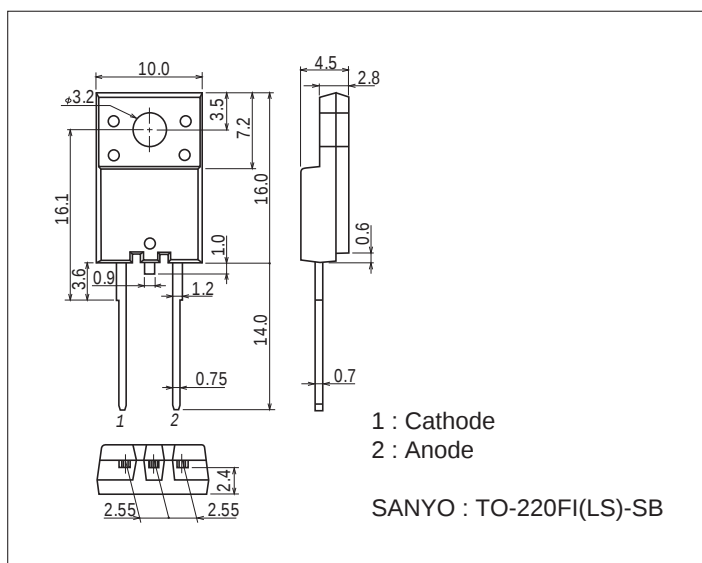
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Package Dimensions

unit : mm (typ)

7510-001



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