

SANYO Semiconductors DATA SHEET

RD0306LS-SB — Diffused Junction Silicon Diode

Low VF · High-Speed Switching Diode

Features

- · High breakdown voltage (VRRM=600V).
- · Fast reverse recovery time.
- · Low noise at the time of reverse recovery.
- · High reliability.
- Easy to be mounted, good heat dissipation.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		600	V
Average Output Current	I _O		3	А
R.M.S Forward Current	IF(RMS)		9	А
Surge Forward Current	I _{FSM}	Sine wave 10ms, 1 cycle	40	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

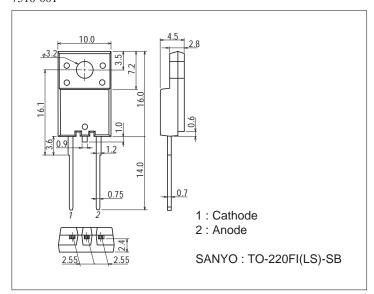
Electrical Characteristics at Ta=25°C

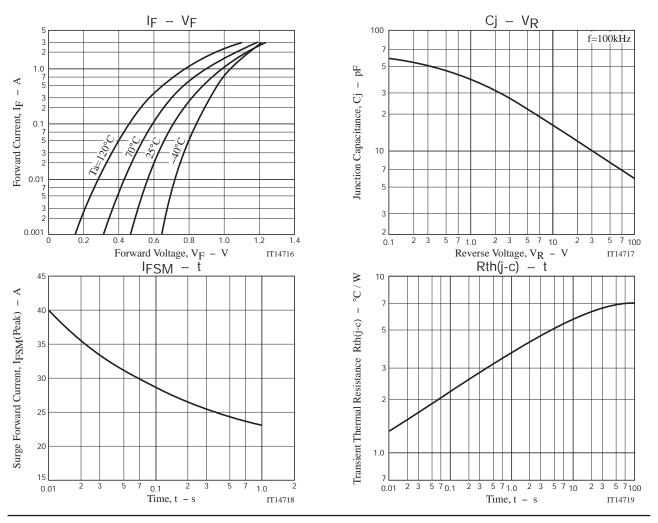
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Ullit
Reverse Voltage	VR	I _R =1mA	600			V
Forward Voltage	VF	IF=3A		1.2	1.5	V
Reverse Current	IR	V _R =600V			10	μΑ
Reverse Recovery Time	t _{rr} 1	I _F =3A, di / dt=100A/μs		40	50	ns
	t _{rr} 2	I _F =0.5A, I _R =1A		16		ns
Thermal Resistance	Rth(j-c)	Junction -Case : Smoothed DC			7.0	°C/W

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Package Dimensions

unit : mm (typ) 7510-001





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