

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

RD2006LS-SB5 —

Diffused Junction Silicon Diode

Ultrahigh-Speed Switching Diode

Features

- High breakdown voltage (VRRM=600V).
- · 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	V _{RRM}		600	V
Average Output Current	I _O		20	А
Surge Forward Current	IFSM	Sine wave, 10ms single pulse	180	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

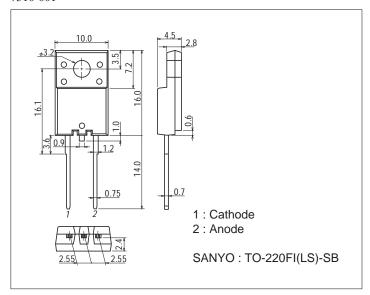
Electrical Characteristics at Ta=25°C

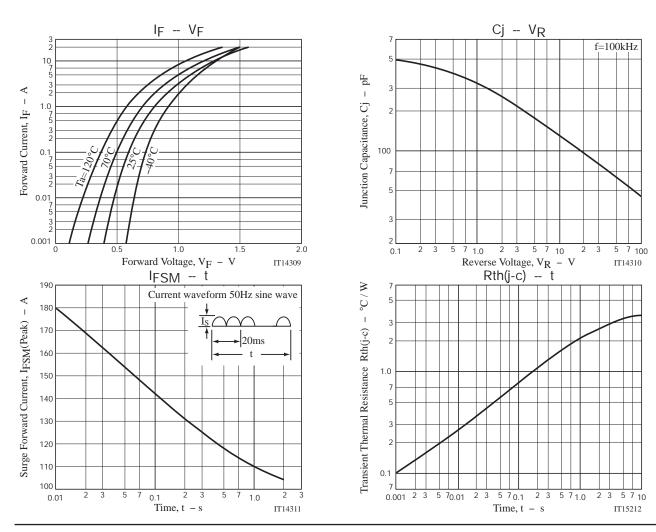
Parameter	Symbol	Conditions	Ratings			Linit
			min	typ	max	Unit
Reverse Voltage	V _R	I _R =1mA	600			V
Forward Voltage	VF	IF=20A		1.6	1.75	V
Reverse Current	IR	V _R =600V			100	μΑ
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/μs		44	50	ns
	t _{rr} 2	I _F =0.5A, I _R =1A		22		ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C / W

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Package Dimensions

unit : mm (typ) 7510-001





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