

SANYO Semiconductors DATA SHEET

RD1006LS-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	VRRM		600	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		600	V
Average Output Current	Io		10	Α
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) Package limited	20	Α
Surge Forward Current	I _{FSM}	Sine wave 10ms, single pulse	180	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

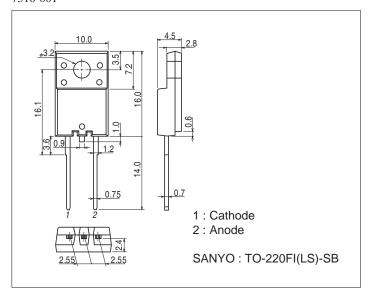
Electrical Characteristics at Ta=25°C

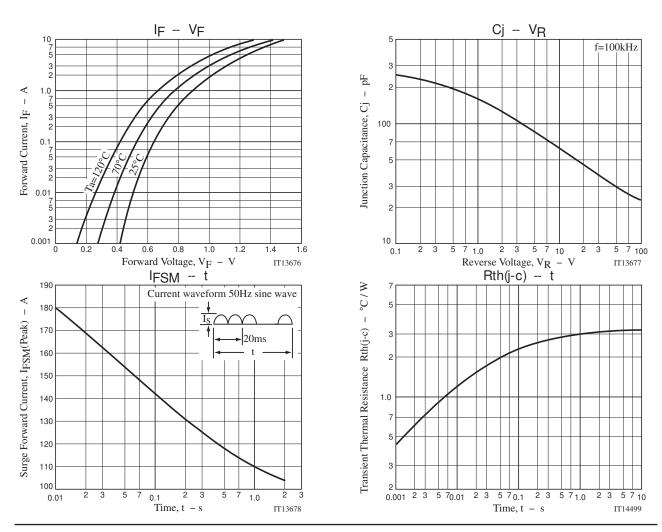
Parameter	Symbol	Conditions	Ratings			- Unit
			min	typ	max	O IIII
Reverse Voltage	VR	I _R =1mA	600			V
Forward Voltage	VF	IF=10A		1.4	1.6	V
Reverse Current	IR	V _R =600V			100	μΑ
Reverse Recovery Time	t _{rr} 1	I _F =10A, di / dt=100A/μs		44	50	ns
	t _{rr} 2	IF=0.5A, IR=1A		16		ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.22	°C / W

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Package Dimensions

unit : mm (typ) 7510-001





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