Ordering number : ENA1208

SANYO Semiconductors

DATA SHEET

RD1006LS — Diffused Junction Silicon Diode
Ultrahigh-Speed Switching Diode

Features

- High breakdown voltage (V_{RRM}=600V).
- High reliability.
- One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- Fast reverse recovery time.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		600	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		600	V
Average Output Current	I_O		10	A
Peak Output Current	I_{OP}	PW≤100μs, duty cycle≤50%	40	A
Surge Forward Current	I_{FSM}	Sine wave 10ms	180	A
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	
Reverse Voltage	V_R	I_R=1mA	600			V
Forward Voltage	V_F	I_F=10A			1.6	V
Reverse Current	I_R	V_R=600V			100	μA
Reverse Recovery Time	t_{rr}	I_F=10A, di / dt=100A/μs			50	ns

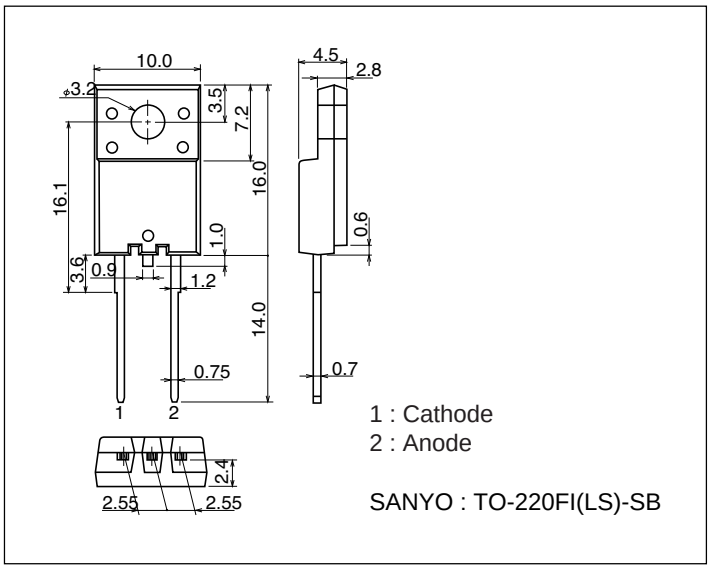
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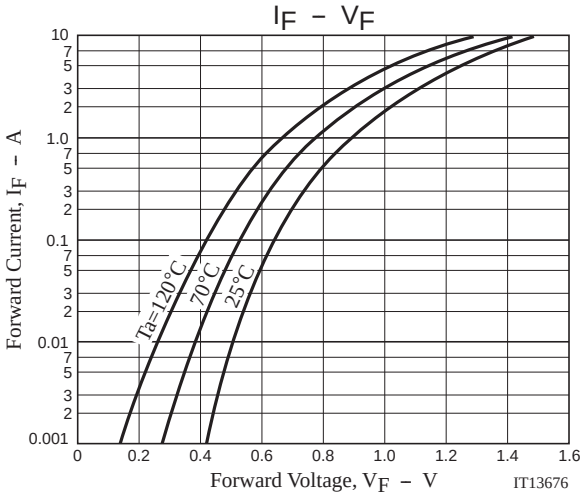
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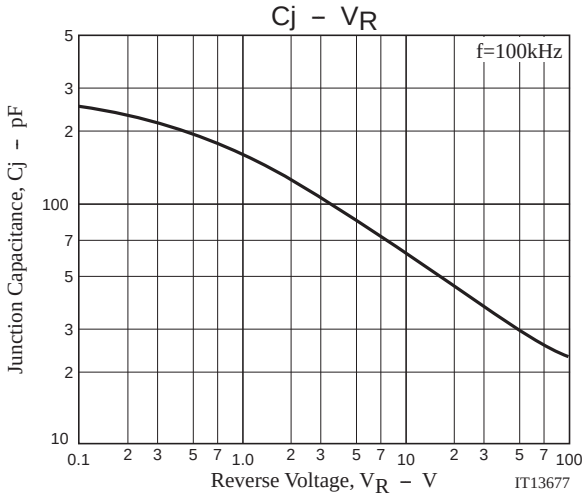
Package Dimensions

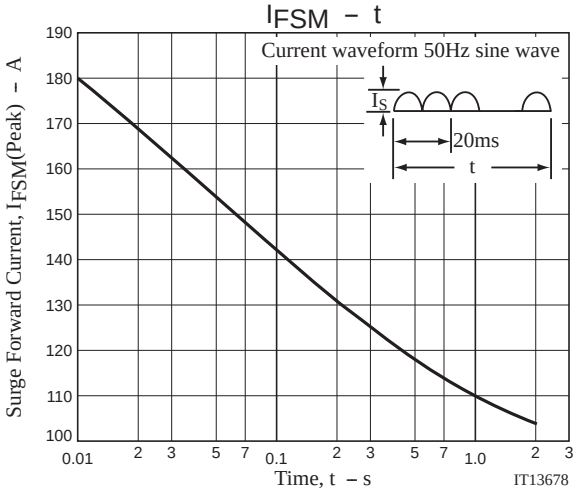
unit : mm (typ)

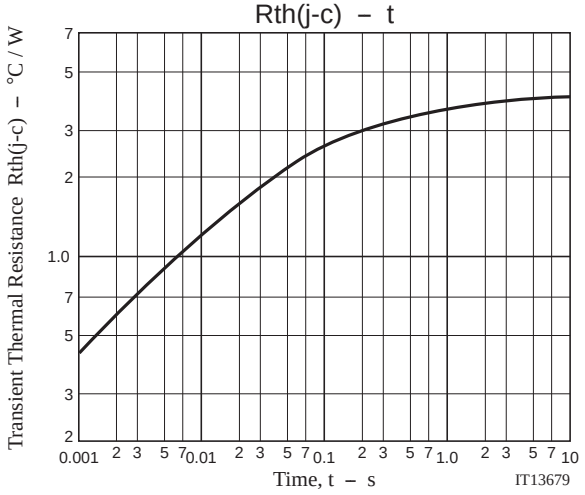
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