

RG2006JN

Diffused Junction Silicon Diode

Low VF · High-Speed Switching Diode

Features

- VRRM=600V
- t_{rr}=16ns (typ.)
- · Low noise at the time of reverse recovery

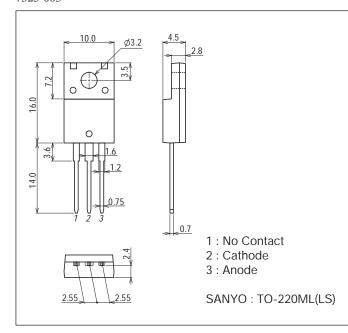
Specifications

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	PW≤100µs, duty≤0.1	600	V
Average Output Current	lo		20	А
Peak Output Current	IOP	PW≤100μs, duty cycle≤50%	40	А
Surge Forward Current	IFSM	Sine wave, 10ms	180	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7525-003



Product & Package Information • Package

: TO-220ML(LS)

- : SC-67, SOT186A
- Minimum Packing Quantity : 100 pcs./bag, 50 pcs./magazine

Marking

• JEITA, JEDEC

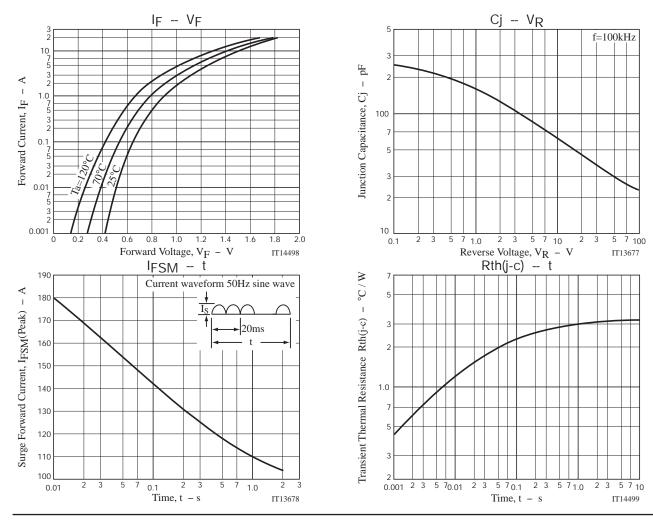
Electrical Connection



2

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	IR=1mA	600			V
Forward Voltage	V _F 1	IF=10A		1.45	1.6	V
	V _F 2	IF=20A		1.8	2.1	V
Reverse Current	IR	V _R =600V			10	μΑ
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/µs			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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