

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

RD0306T —

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.
- Low forward voltage (VF max=1.5V).
- · Halogen free compliance.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		600	V
Average Output Current	Io		3	Α
Surge Forward Current	IFSM	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			Linit
			min	typ	max	Unit
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	IF=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		6		°C / W

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Package Dimensions

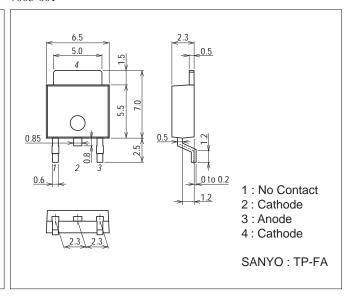
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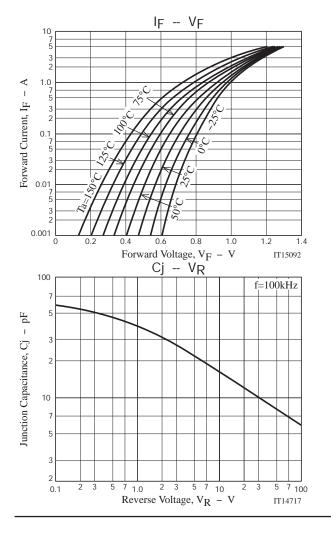
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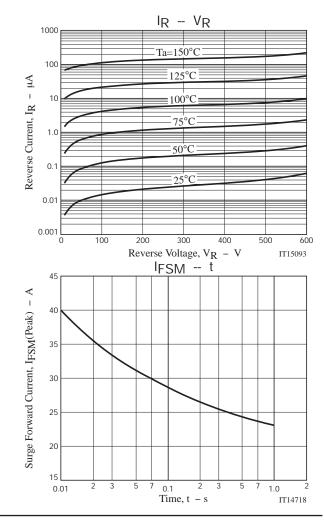
5.0 1 : No Contact 2 : Cathode 3: Anode 4 : Cathode SANYO: TP

Package Dimensions

unit: mm (typ) 7003-001







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