

SANYO Semiconductors DATA SHEET

RD0506T — 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=1.6V).
- · 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		5	Α
Surge Forward Current	IFSM	Sine wave 10ms, 1 cycle	80	Α
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	I _F =5A		1.3	1.6	V
Reverse Current	IR	V _R =600V			50	μΑ
Reverse Recovery Time	t _{rr} 1	IF=5A, 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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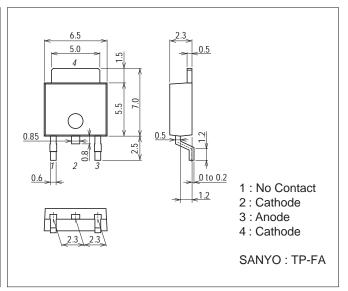
Package Dimensions

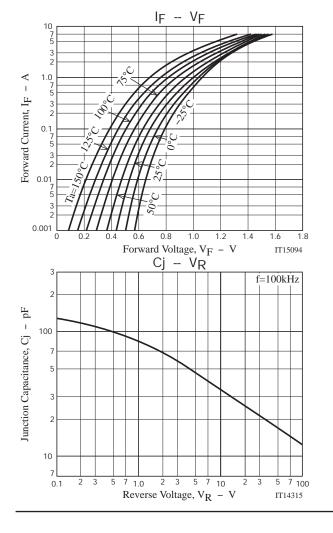
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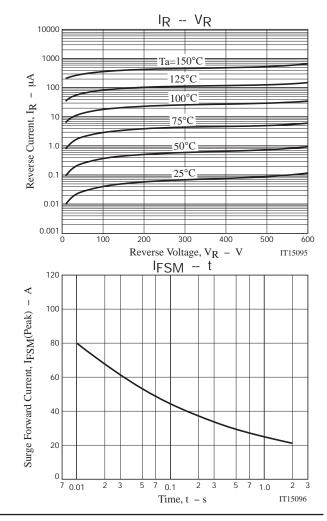
0.85 0.7 0.6 1 : No Contact 2 : Cathode 3 : Anode 4 : Cathode SANYO : TP

Package Dimensions

unit : mm (typ) 7003-001







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