



SANYO Semiconductors

DATA SHEET

RD0106T

 — Diffused Junction Silicon Diode
Low VF · High-Speed Switching Diode

Features

- High breakdown voltage ($V_{RRM}=600V$).
- Fast reverse recovery time.
- Low forward voltage ($V_F \text{ max}=1.3V$).
- Low switching noise.
- Halogen free compliance.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		600	V
Average Output Current	I_O		1	A
Surge Forward Current	I_{FSM}	Sine wave 10ms	10	A
Junction Temperature	T_j		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	600			V
Forward Voltage	V_F	$I_F=1A$		1.1	1.3	V
Reverse Current	I_R	$V_R=600V$			10	μA
Reverse Recovery Time	t_{rr1}	$I_F=1A, di/dt=100A/\mu s$		40	50	ns
	t_{rr2}	$I_F=0.5A, I_R=1A$		16		ns
Thermal Resistance	$R_{th(j-c)}$	Junction -Case		6		$^\circ C / W$

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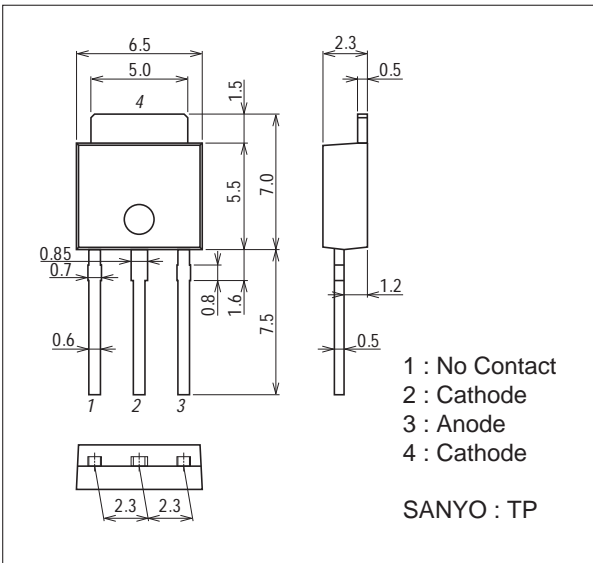
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RD0106T

Package Dimensions

unit : mm (typ)

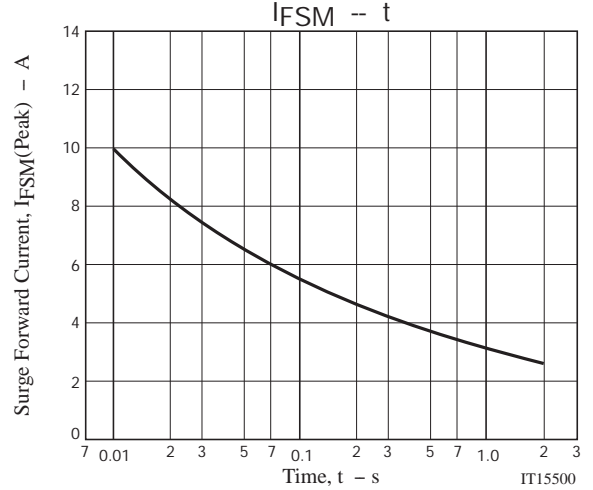
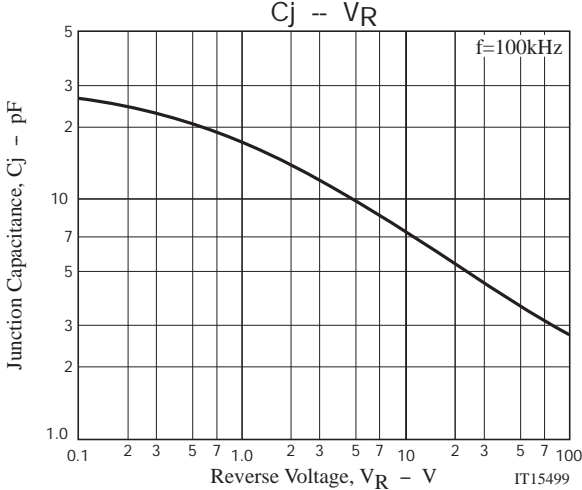
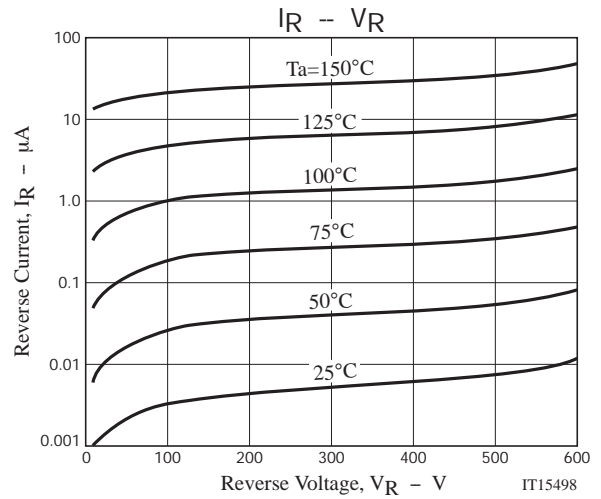
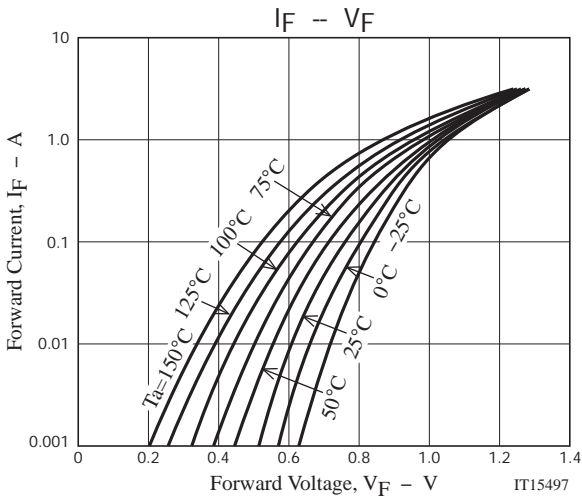
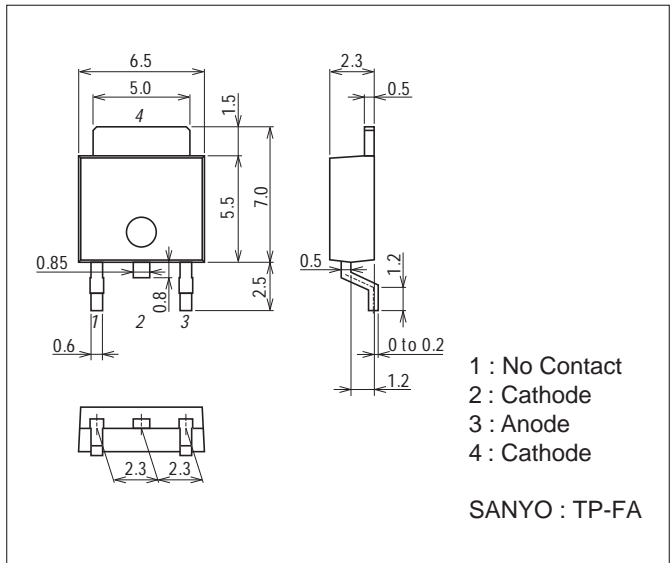
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Package Dimensions

unit : mm (typ)

7003-001



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