

SANYO Semiconductors DATA SHEET

UD0506T—

Diffused Junction Silicon Diode

Low VF 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=1.3V).
- · Halogen free compliance.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		600	V
Average Output Current	I _O		5	А
Surge Forward Current	IFSM	Sine wave 10ms	40	А
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Cumbal	Conditions	Ratings			1.1
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	I _R =1mA	600			V
Forward Voltage	VF	I _F =5A		1.1	1.3	V
Reverse Current	IR	V _R =600V			10	μА
Reverse Recovery Time	t _{rr} 1	IF=5A, di / dt=100A/μs		120	150	ns
	t _{rr} 2	I _F =0.5A, I _R =1A		53		ns
Thermal Resistance	Rth(j-c)	Junction -Case		6		°C/W

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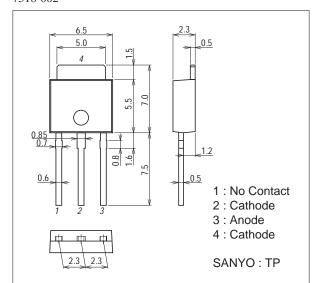
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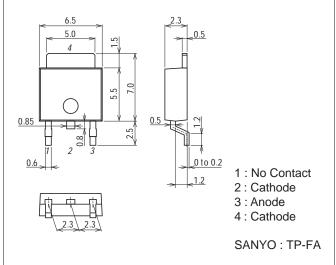
Package Dimensions

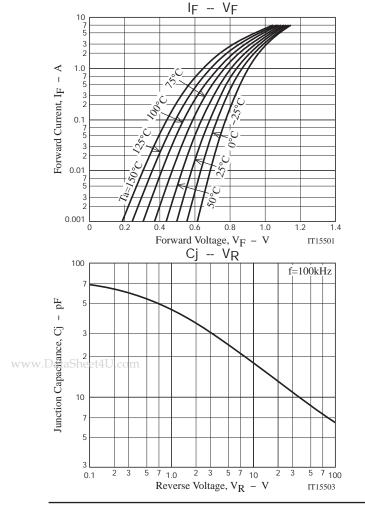
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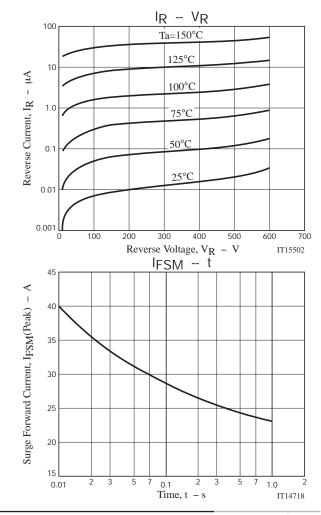
Package Dimensions unit: mm (typ) unit: mm (typ)

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