

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

RD2006RH-SB-

Diffused Junction Silicon Diode
Ultrahigh-Speed Switching Diode

Features

- V_{RRM}=600V
- V_F=1.75V max. (I_F=20A)
- $t_{rr}=21ns$ (typ.)

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM	DC bias	600	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=63°C	20	А
R.M.S Forward Current	I _F (RMS)	Tc=25°C (SANYO's ideal heat dissipation condition) *, Package limited, DC	30	А
Surge Forward Current	IFSM	50Hz Sine wave, 1 pulse	220	А
Junction Temperature	Тј		150	°C
Storage Temperature	Tstg		-55 to +150	°C

*. SANYO's condition is radiation from backside

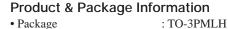
ø3.4

The method is applying silicone grease to the backside of the device and attaching the device to water-cooled radiator made of aluminium

Package Dimensions

unit : mm (typ) 7534-001

5.0



PackageJEITA, JEDEC

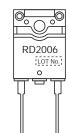
: SC-93, TO-247, SOT-199

• Minimum Packing Quantity : 100 pcs./tray

Marking

Electrical Connection

2





5.6

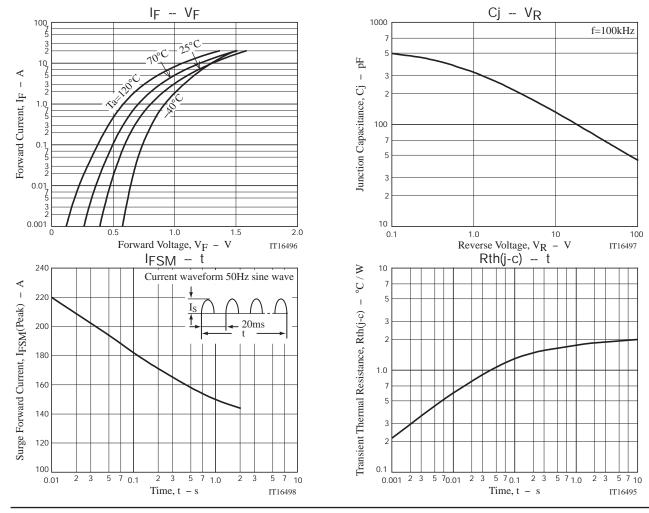
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60811SA TKIM TC-00002614 No.9054-1/3

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	IR=1mA	600			V
Forward Voltage	VF	IF=20A		1.6	1.75	V
Reverse Current	IR	V _R =600V			100	μΑ
Reverse Recovery Time	t _{rr} 1	IF=10A, di / dt=100A/µs			50	ns
	t _{rr} 2	IF=0.5A, IR=1A		21		ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			2	°C / W





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