

SANYO

No.4404A

DD52RC

Silicon Diffused Junction Type
 Damper Diode for Ultrahigh-Definition
 Display Applications

Features

- High breakdown voltage (V_{RRM} : 1500V).
- High reliability.
- One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- Fast forward/reverse recovery time.

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

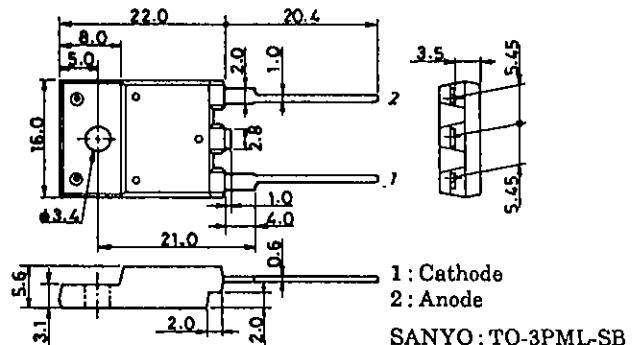
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	1500	V
Non-repetitive Peak Reverse Voltage	V_{RSM}	1500	V
Average Output Current	I_o	5	A
Peak Output Current	I_{op}	$PW \leq 100\mu\text{s}, \text{duty} \leq 50\%$	20
Surge Forward Current	I_{FSM}	Sine wave, 10ms	50
Junction Temperature	T_j		150
Storage Temperature	T_{stg}		-55 to +150

Electrical Characteristics at $T_a = 25^\circ\text{C}$

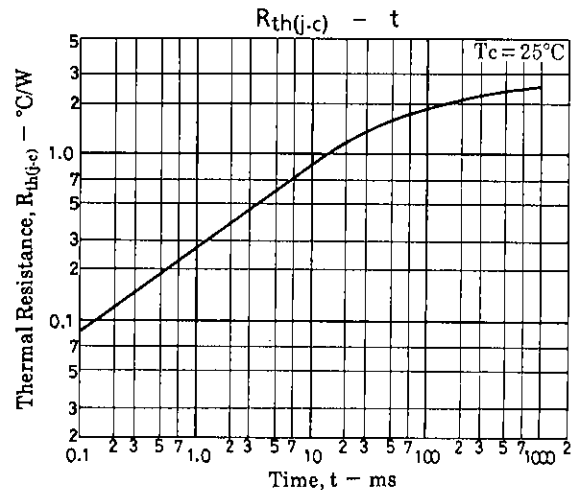
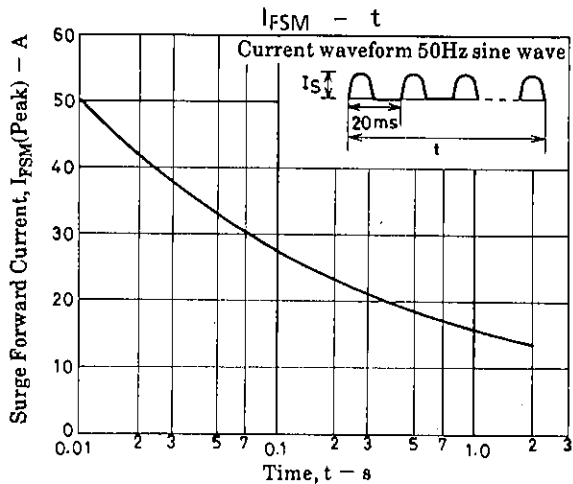
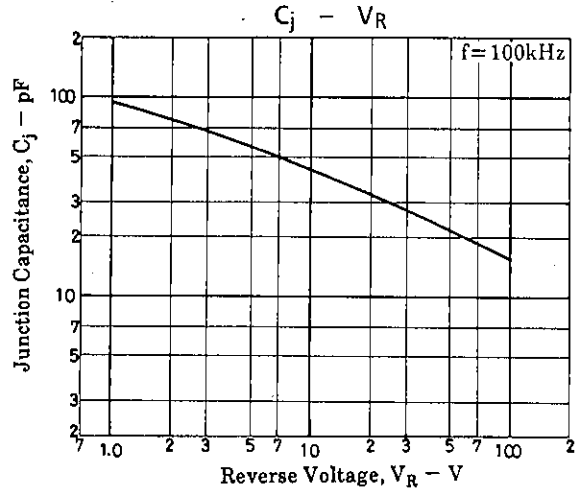
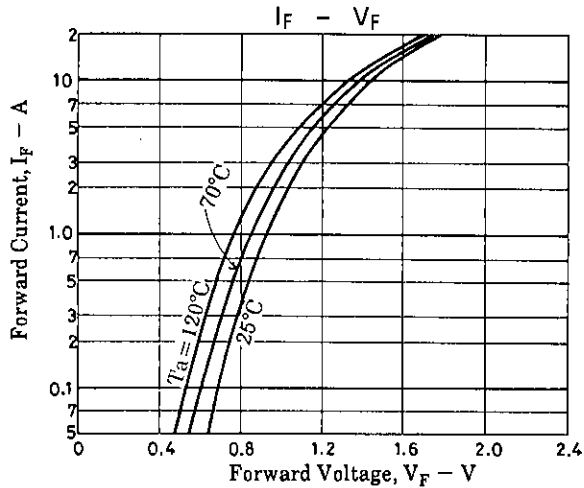
			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 1\text{mA}$	1500			V
Forward Voltage	V_F	$I_F = 5\text{A}$			1.8	V
Reverse Current	I_R	$V_R = 1000\text{V}$			200	μA
Reverse Recovery Time	t_{rr}	$I_F = 100\text{mA}, I_R = 100\text{mA}$			1.5	μs
Forward Recovery Time	t_{fr}	$I_F = 100\text{mA}$		0.1	0.2	μs
Junction Capacitance	C_j	$V_R = 10\text{V}, f = 100\text{kHz}$		40		pF
Thermal Resistance	$R_{th(j-c)}$	Junction - Case			2.5	$^\circ\text{C/W}$

Package Dimensions 1252A

(unit: mm)

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