

	No.5123	DD82SC Silicon Diffused Junction Type Damper Diode for Very High-Definition Display Applications

Features

- High breakdown voltage (V_{RRM} : 1600V).
- High reliability.
- One-point fixing type plastic molded package facilitating easy mounting and heat dissipation.
- Fast forward/reverse recovery time.

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

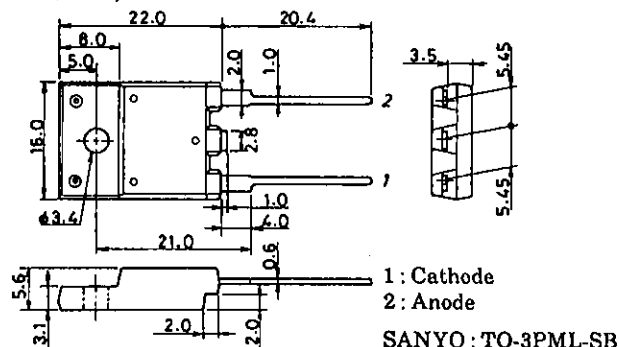
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Non-repetitive Peak Reverse Voltage	V_{RSM}	1600	V
Average Output Current	I_o	8	A
Peak Output Current	I_{op}	$PW \leq 100\mu s, \text{duty} \leq 50\%$	32 A
Surge Forward Current	I_{FSM}	Sine wave, 10ms	80 A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

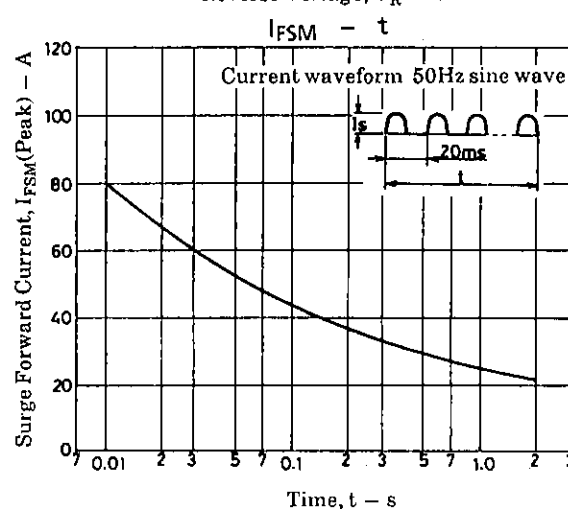
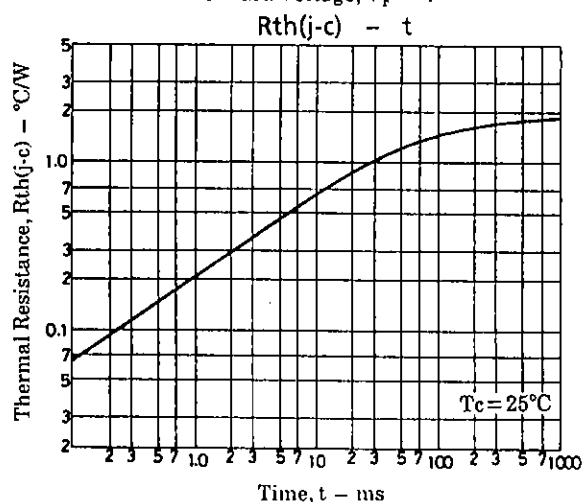
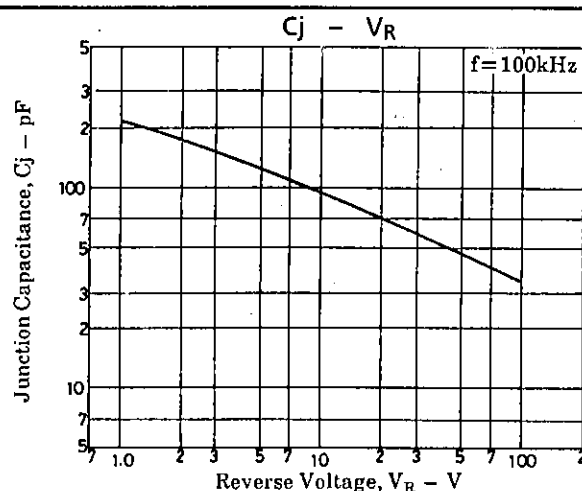
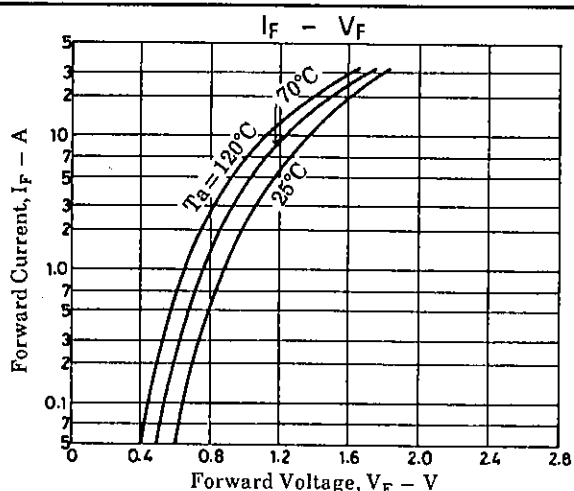
Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 1\text{mA}$	1600			V
Forward Voltage	V_F	$I_F = 8\text{A}$			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	$V_R = 10\text{V}, f = 100\text{kHz}$		90		pF
Thermal Resistance	$R_{th(j-c)}$	Junction - Case			2.0	$^\circ\text{C/W}$

Package Dimensions 1252A

(unit : mm)





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