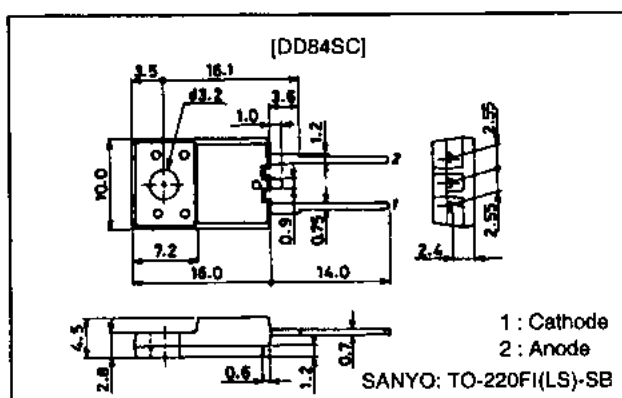


**SANYO****DD84SC****Damper Diode for Very High-Definition Display Applications****Features**

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

**Package Dimensions**

unit: mm

**1253A****Absolute Maximum Ratings** at  $T_a=25^\circ\text{C}$ 

Parameter	Symbol	Conditions	Ratings	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	$I_{OP}$	$PW \leq 100\mu\text{s}$ , $\text{duty} \leq 50\%$	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  $T_a=25^\circ\text{C}$ 

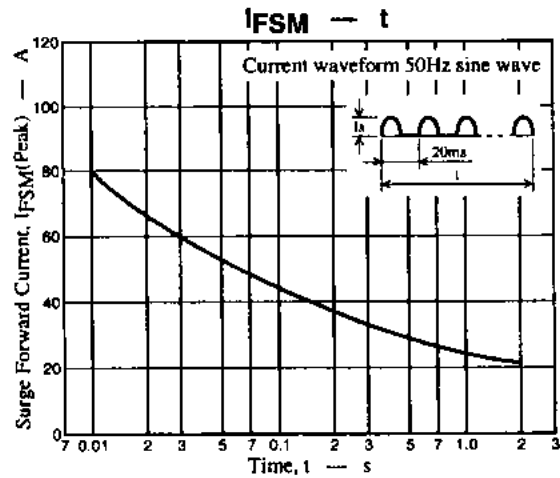
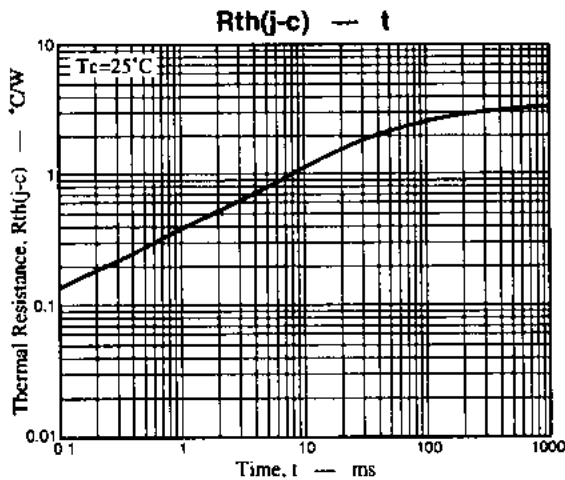
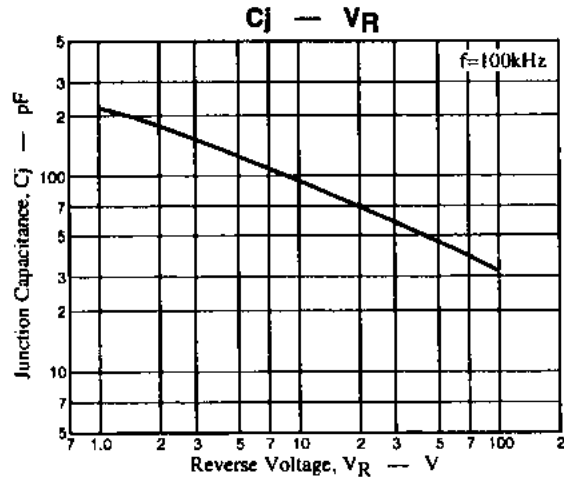
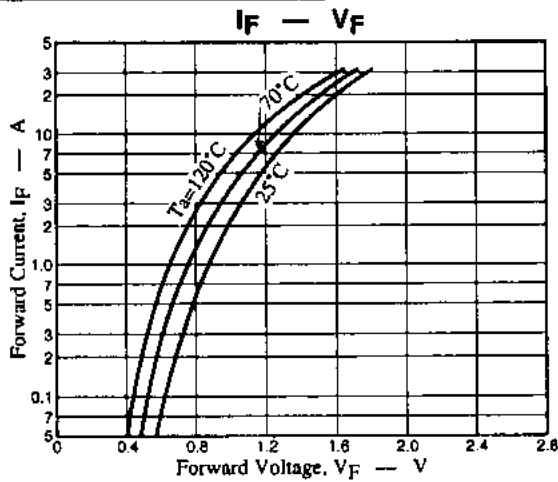
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse voltage	$V_R$	$I_F=1\text{mA}$	1600			V
Forward voltage	$V_F$	$I_F=8\text{A}$			1.8	V
Reverse current	$I_R$	$V_R=1000\text{V}$			200	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=100\text{mA}$ , $I_R=100\text{mA}$			1.5	$\mu\text{s}$
Forward recovery time	$t_{fr}$	$I_F=100\text{mA}$		0.1	0.2	$\mu\text{s}$
Junction capacitance	$C_j$	$V_R=10\text{V}$ , $f=100\text{kHz}$		90		pF
Thermal resistance	$R_{th(j-c)}$	Junction-case			3.4	$^\circ\text{C/W}$

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# DD84SC



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