

Ordering number : ENN5891A

Silicon Diffused Junction Type



DD84SCLS

Damper Diode for Ultrahigh-Definition Display Applications

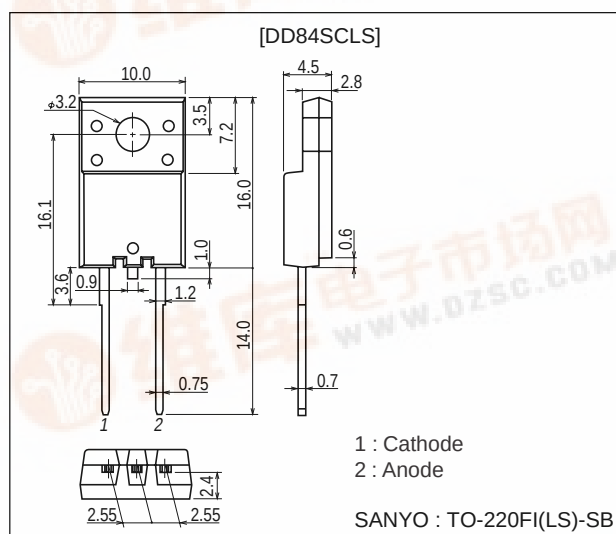
Features

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

Package Dimensions

unit : mm

1253A



Specifications

Absolute Maximum Ratings at Ta=25°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}	$PW \leq 100\mu s$, $duty \leq 50\%$	32	A
Surge Forward Current	I_{FSM}	Sine wave, 10ms	80	A
Junction Temperature	T_j		150	$^{\circ}C$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}C$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	1600			V
Forward Voltage	V_F	$I_F=8A$			1.8	V
Reverse Current	I_R	$V_R=1000V$			200	μA
Reverse Recovery Time	t_{rr}	$I_F=100mA, I_R=100mA$			1.5	μs
Forward Recovery Time	t_{fr}	$I_F=100mA$		0.1	0.2	μs
Junction Capacitance	C_j	$V_R=10V, f=100kHz$		90		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			3.4	$^{\circ}C / W$

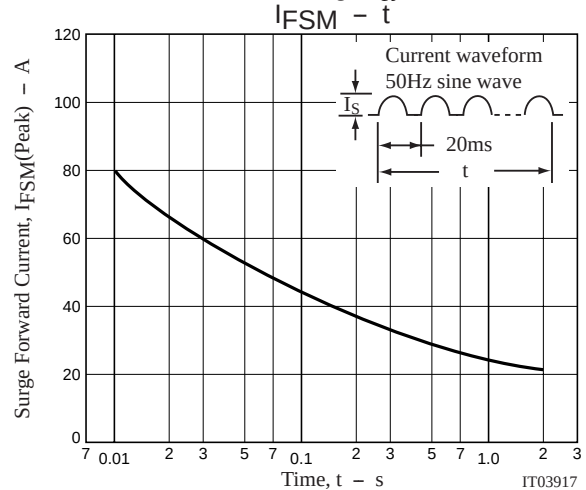
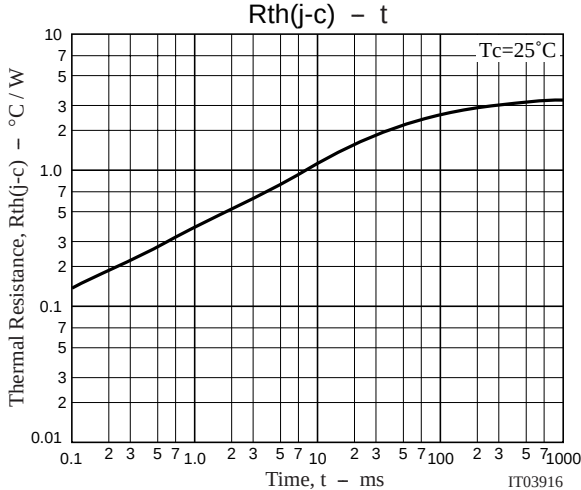
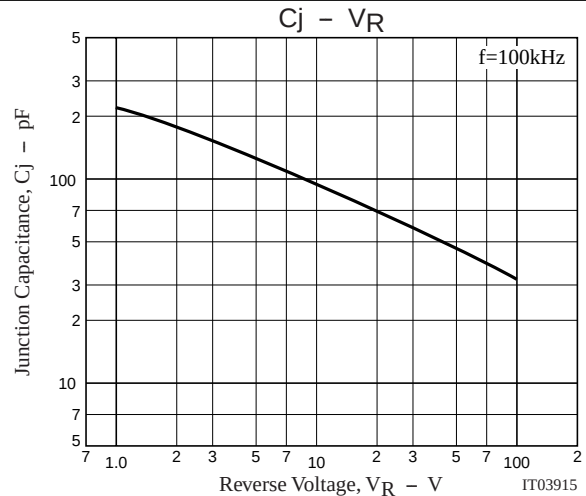
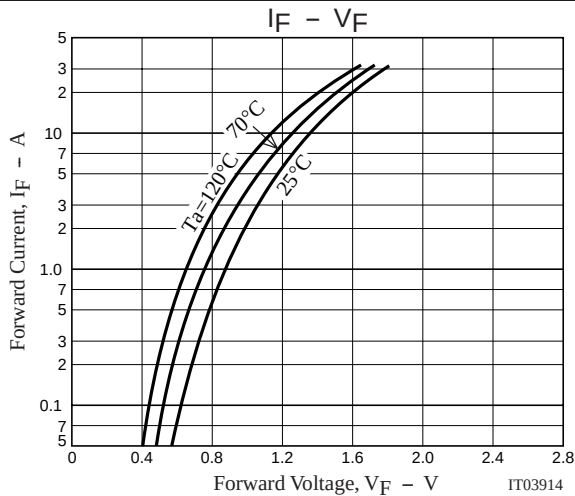
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