

DD54SC

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

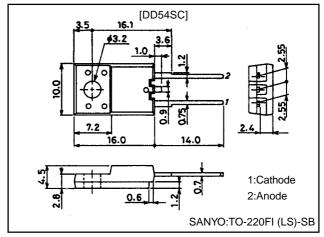
Features

- \cdot 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.

Package Dimensions

unit:mm

1253A



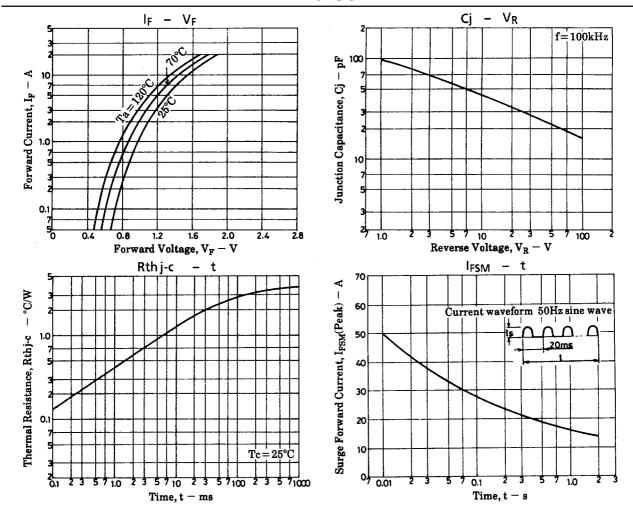
Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		1600	V
Non-repetitive Peak Reverse Voltage	VRSM		1600	V
Average Output Current	IO		5	Α
Peak Output Current	lop	PW≤100μs, duty≤50%	20	Α
Surge Forward Current	IFSM	Sine wave, 10ms	50	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	v_R	I _R =1mA	1600			V
Forward Voltage	٧F	I _F =5A			1.8	V
Reverse Current	I _R	V _R =1000V			200	μA
Reverse Recovery Time	t _{rr}	I _F =100mA, I _F =100mA			1.5	μs
Forward Recovery Time	t _{fr}	Ip=100mA		0.1	0.2	μs
Junction Capacitance	Cj	V _R =10V, f=100kHz		40		pF
Thermal Resistance	Rthj-c	Juntion-Case			3.75	°C/W



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