

SANYO

No.5122A

DD54SC

Silicon Diffused Junction Type

**Damper Diode for Ultrahigh-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 $T_a = 25^\circ\text{C}$

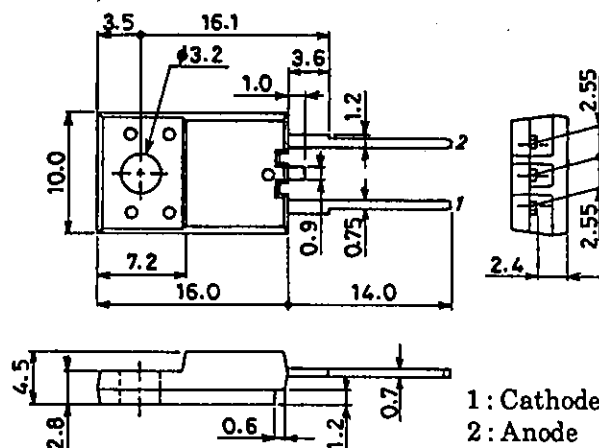
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Non-repetitive Peak Reverse Voltage	V_{RSM}	1600	V
Average Output Current	I_o	5	A
Peak Output Current	I_{op}	20	A
Surge Forward Current	I_{FSM}	50	A
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

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	$I_F = 5\text{A}$			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			3.75	$^\circ\text{C/W}$

Package Dimensions 1253

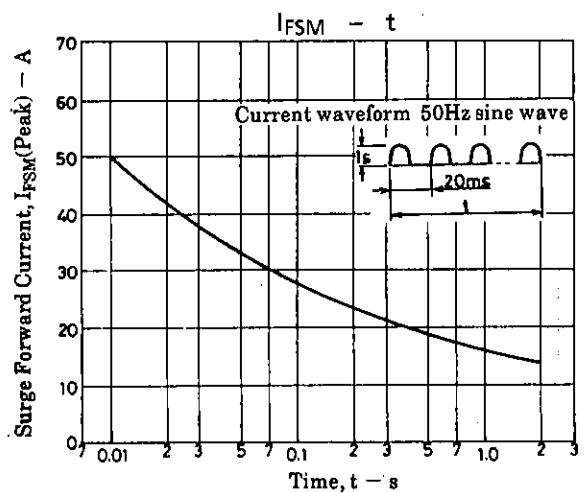
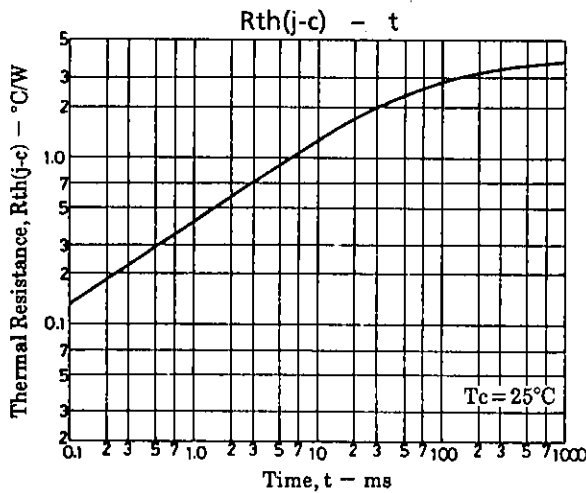
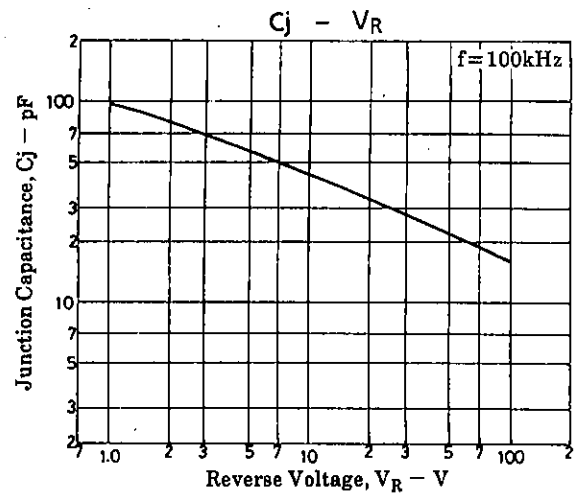
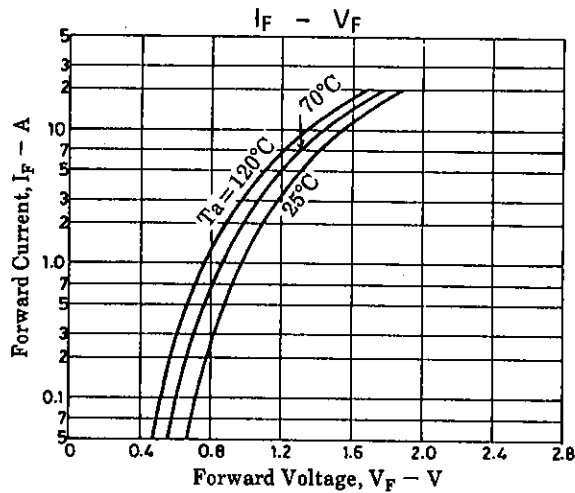
(unit : mm)



SANYO : TO-220FI(LS)-SB

SANYO Electric Co., Ltd. Semiconductor Business Headquarters
 TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

DD54SC



■ No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.

■ Anyone purchasing any products described or contained herein for an above-mentioned use shall:

- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use;
- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.

■ Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of Juny, 1995. Specifications and information herein are subject to change without notice.