

**DD50R**

Diffused Junction Type Silicon Diode

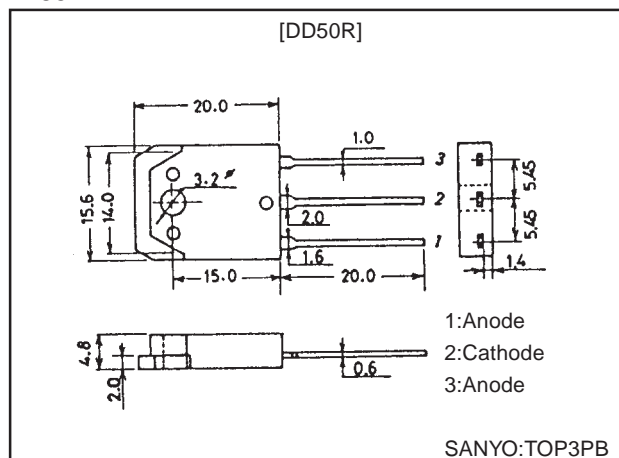
**Ultrahigh-Definition Display Diode****Features**

- High breakdown voltage ( $V_{RRM}$  : 1500V) .
- High reliability.
- Capable of being mounted easily and dissipating heat rapidly because of one-point fixing type plastic molded package.
- Fast forward / reverse recovery time.

**Package Dimensions**

unit:mm

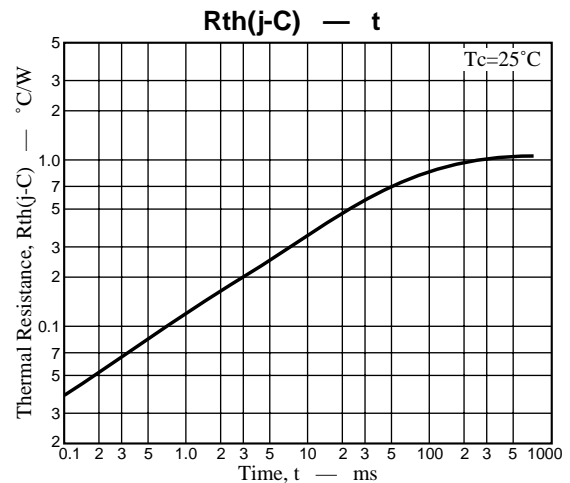
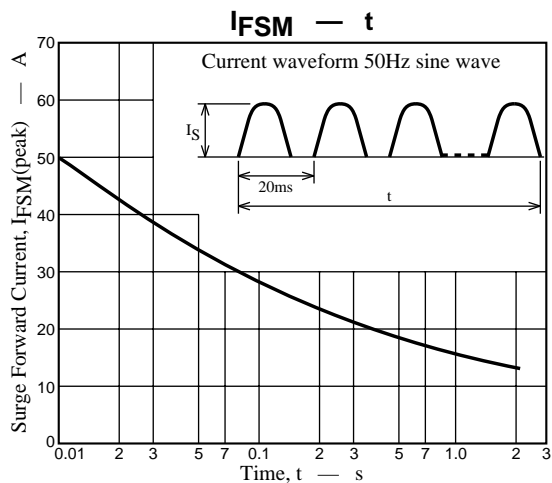
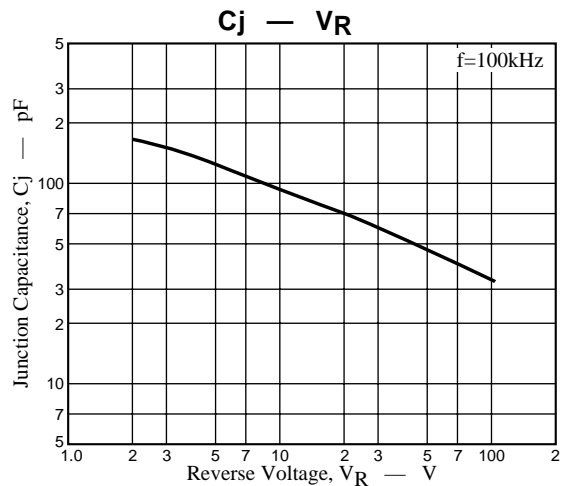
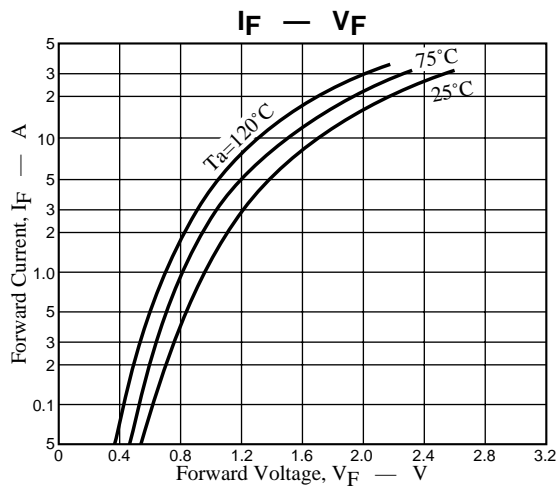
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**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		1500	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		1500	V
Average Output Current	$I_O$		5	A
Peak Output Current	$I_{OP}$	$PW \leq 100\mu\text{s}$ , $\text{duty} \leq 50\%$	20	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	50	A
Junction Temperature	$T_j$		150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R = 1\text{mA}$	1500			V
Forward Voltage	$V_F$	$I_F = 5\text{A}$			2	V
Reverse Current	$I_R$	$V_R = 1000\text{V}$			200	$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 100\text{mA}$			1	$\mu\text{s}$
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			1.25	$^\circ\text{C/W}$



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