

**DD50R**

Diffused Junction Type Silicon Diode

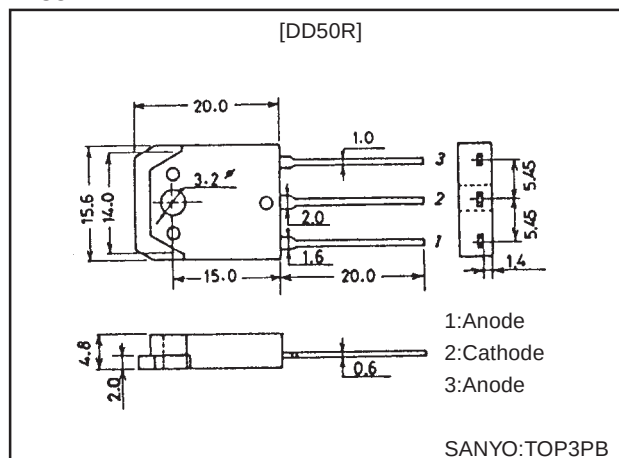
Ultrahigh-Definition Display Diode**Features**

- 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

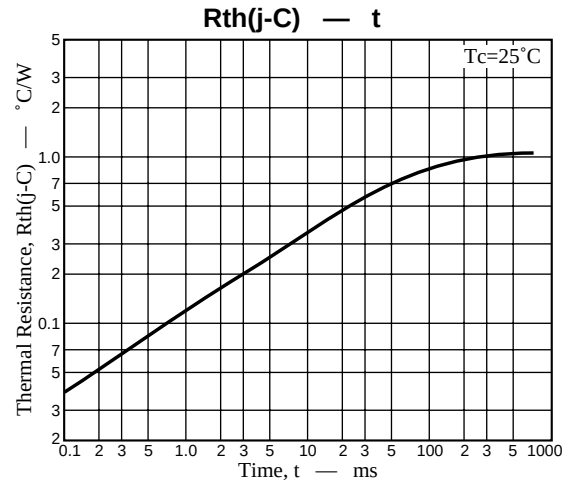
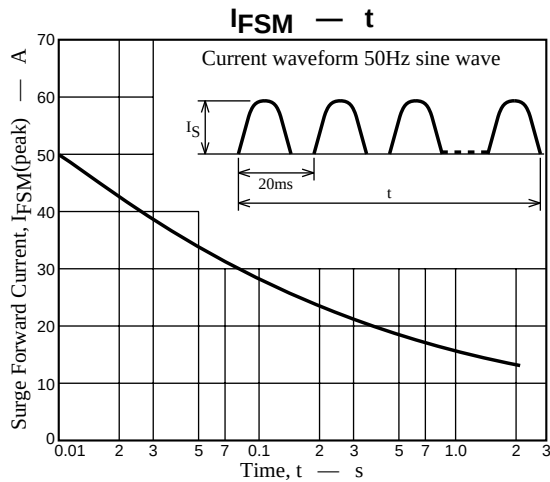
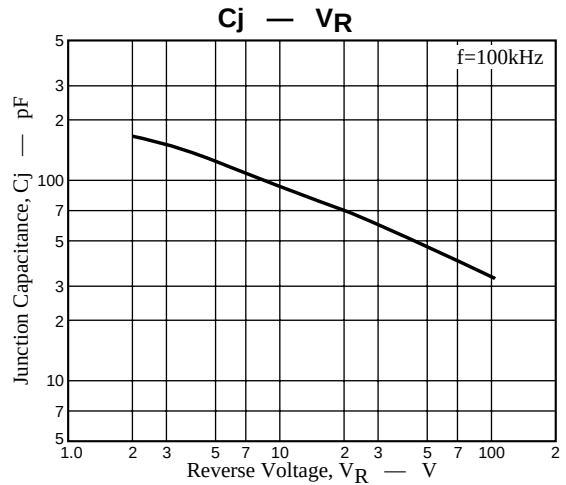
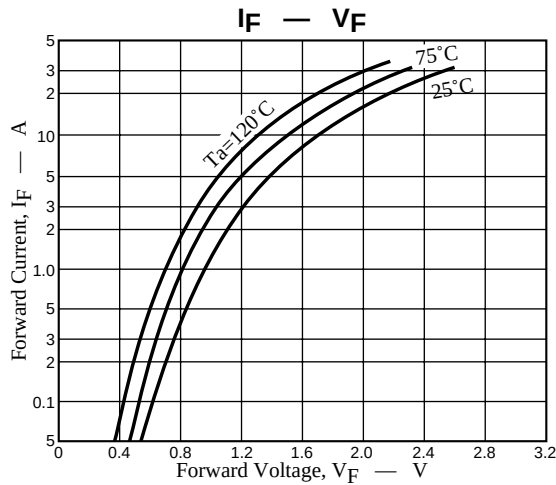
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**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

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	μA
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$			1	μs
Forward Recovery Time	t_{fr}	$I_F = 100\text{mA}$		0.1	0.2	μs
Junction Capacitance	C_j	$V_R = 10\text{V}$, $f = 100\text{KHz}$		90		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case			1.25	$^\circ\text{C/W}$



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