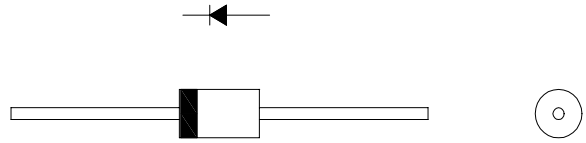


DIODE Type : 30D1

OUTLINE DRAWING

FEATURES

- * Low Forward Voltage drop
- * Low Reverse Leakage Current
- * High Surge Capability



Maximum Ratings

Approx Net Weight:1.24g

Rating	Symbol	30D1			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Non-repetitive Peak Reverse Voltage	V_{RSM}	250			V
Average Rectified Output Current	I_O	1.7	$T_a=40^{\circ}\text{C}$ *1	50Hz Half Sine Wave Resistive Load	A
		3.0	$T_a=61^{\circ}\text{C}$ *2		
RMS Forward Current	$I_{F(RMS)}$	4.71			A
Surge Forward Current	I_{FSM}	150	50Hz Half Sine Wave, 1cycle, Non-repetitive		A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150			$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150			$^{\circ}\text{C}$

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	50	μA	
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3.0\text{A}$	-	-	0.93	V	
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	*1	-	-	80	$^{\circ}\text{C/W}$
			*2	-	-	34	

*1 : Without Fin or P.C. Board

*2 : With Cu Fin (20 x 20 x 1 t, L = 5mm, Both Sides)

30D1 OUTLINE DRAWING (Dimensions in mm)

