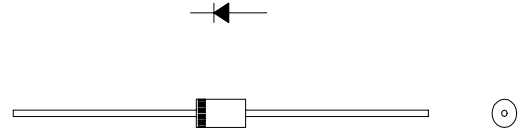


# SBD Type : 21DQ04

## OUTLINE DRAWING

### FEATURES

- \* Miniature Size
- \* Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 30volts trough 100volts Types Available
- \* 52mm Inside Tape Spacing Package Available



### Maximum Ratings

Approx Net Weight:0.38g

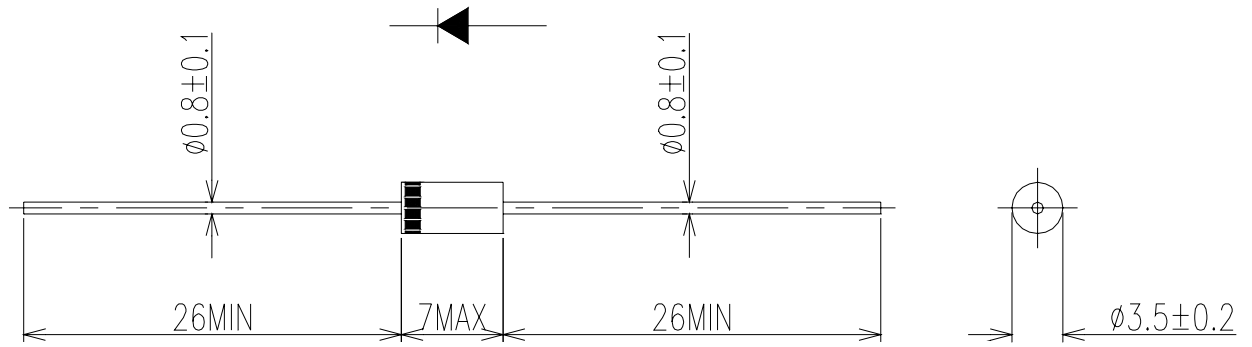
Rating		Symbol	21DQ04			Unit
Repetitive Peak Reverse Voltage		$V_{RRM}$	40			V
Non-repetitive Peak Reverse Voltage		$V_{RSM}$	45			V
Average Rectified Output Current	Without Fin or P.C.Board	$I_o$	1.4	$T_a=30^{\circ}C$	Half Sine Wave Resistive Load	A
	P.C.Board Mounted *		1.7	$T_a=35^{\circ}C$		
RMS Forward Current		$I_{F(RMS)}$	2.67			A
Surge Forward Current		$I_{FSM}$	80	Half Sine Wave,1cycle,Non-repetitive		A
Operating JunctionTemperature Range		$T_{jw}$	- 40 to + 150			$^{\circ}C$
Storage Temperature Range		$T_{stg}$	- 40 to + 150			$^{\circ}C$

### Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	1	mA
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}C, I_{FM}= 2 A$	-	-	0.55	V
Thermal Resistance(Junction to Ambient)	$R_{th(j-a)}$	Without Fin or P.C.Board	-	-	105	$^{\circ}C/W$
		P.C.Board mounted *	-	-	80	

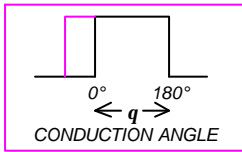
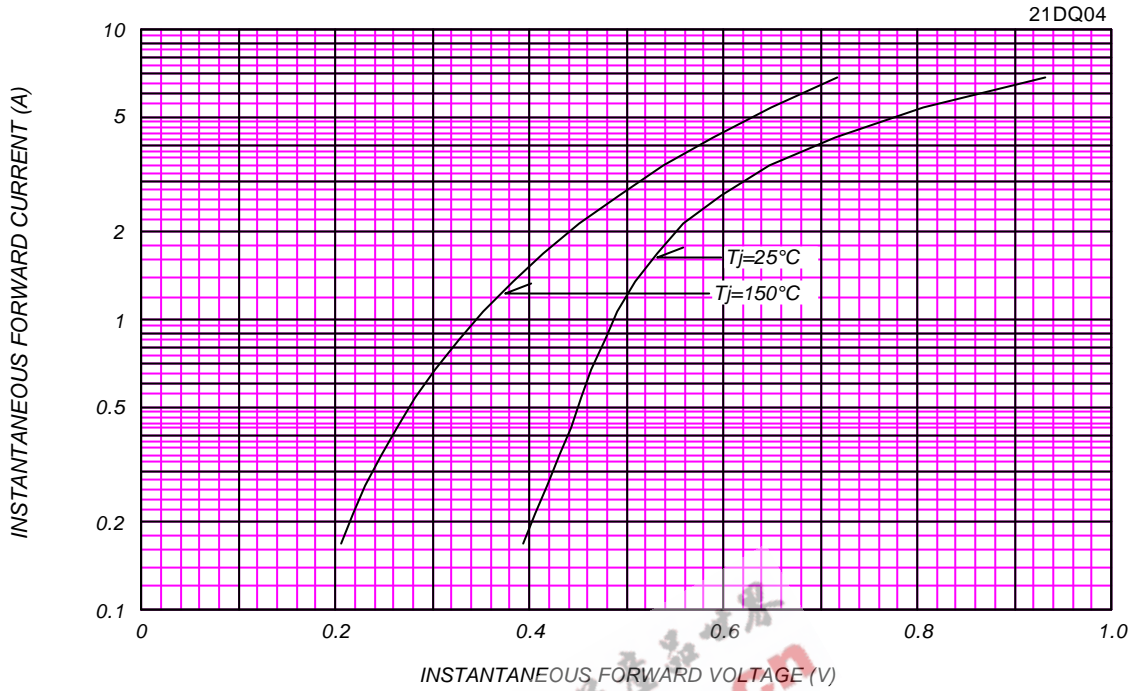
\* :Print Lands = 5x5 mm,Both Sides

21DQ04 OUTLINE DRAWING (Dimensions in mm)

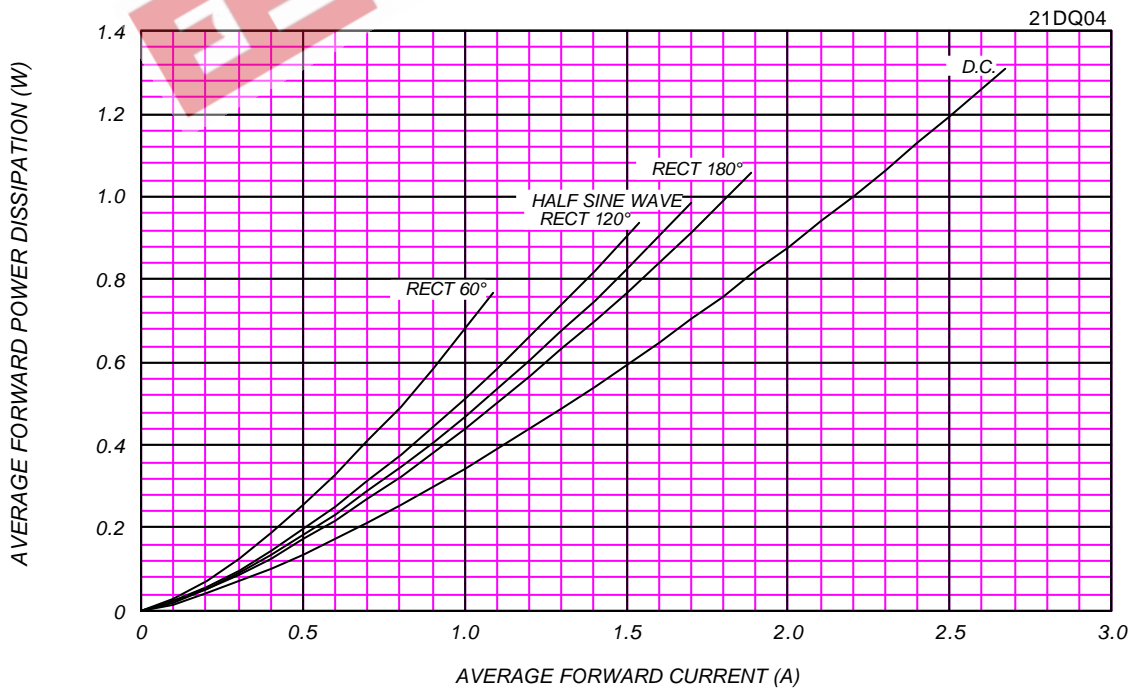


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FORWARD CURRENT VS. VOLTAGE



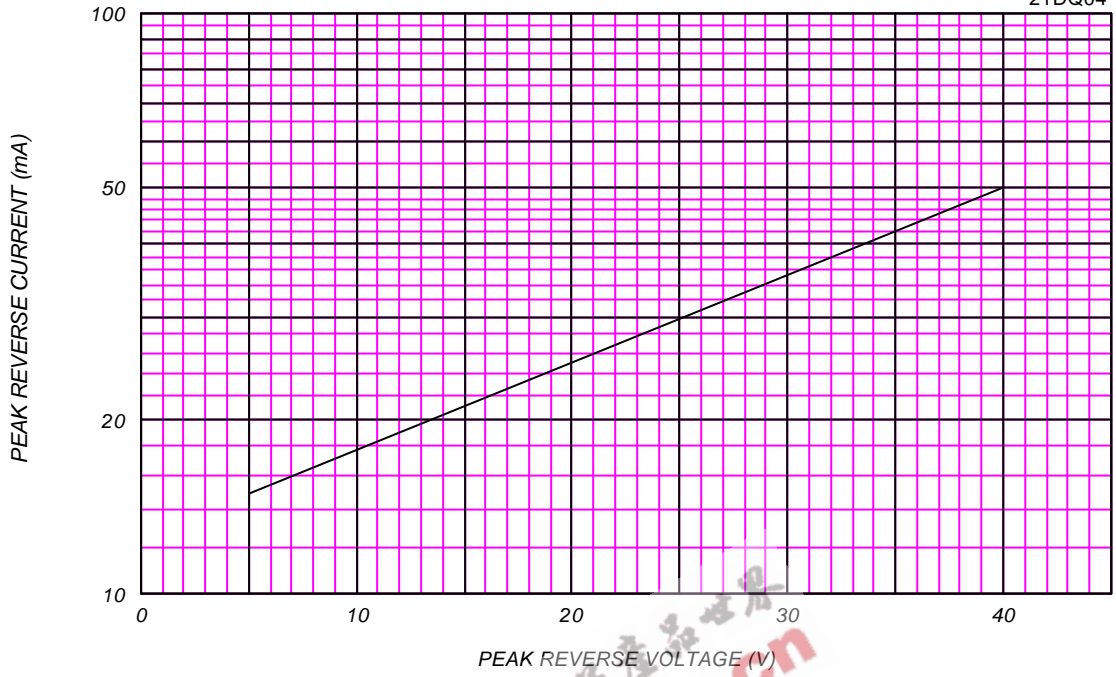
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

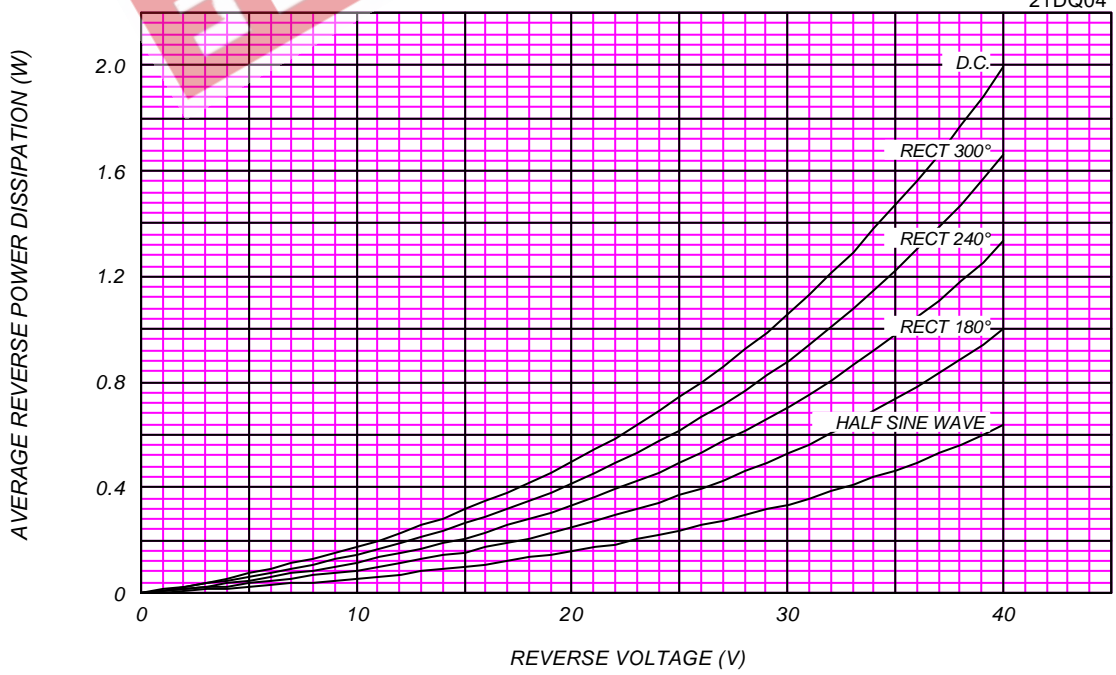
T<sub>j</sub> = 150 °C

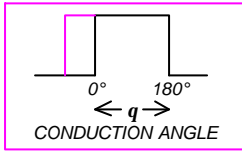
21DQ04



AVERAGE REVERSE POWER DISSIPATION

21DQ04

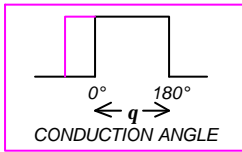
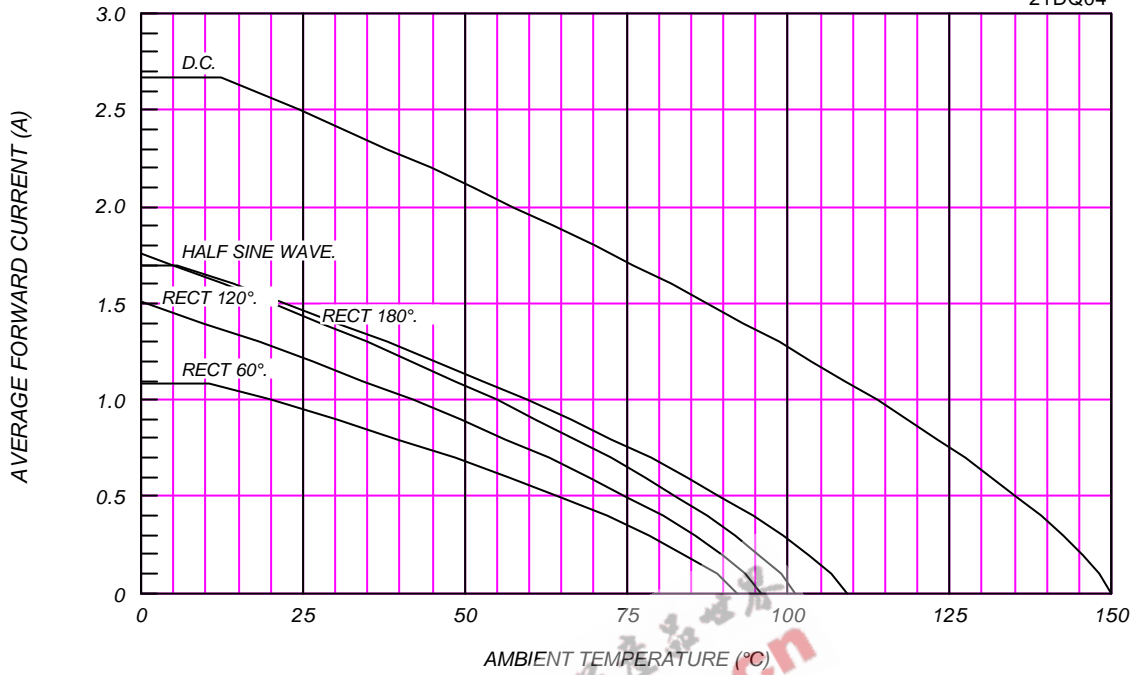




### AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board,  $V_{RM}=40V$

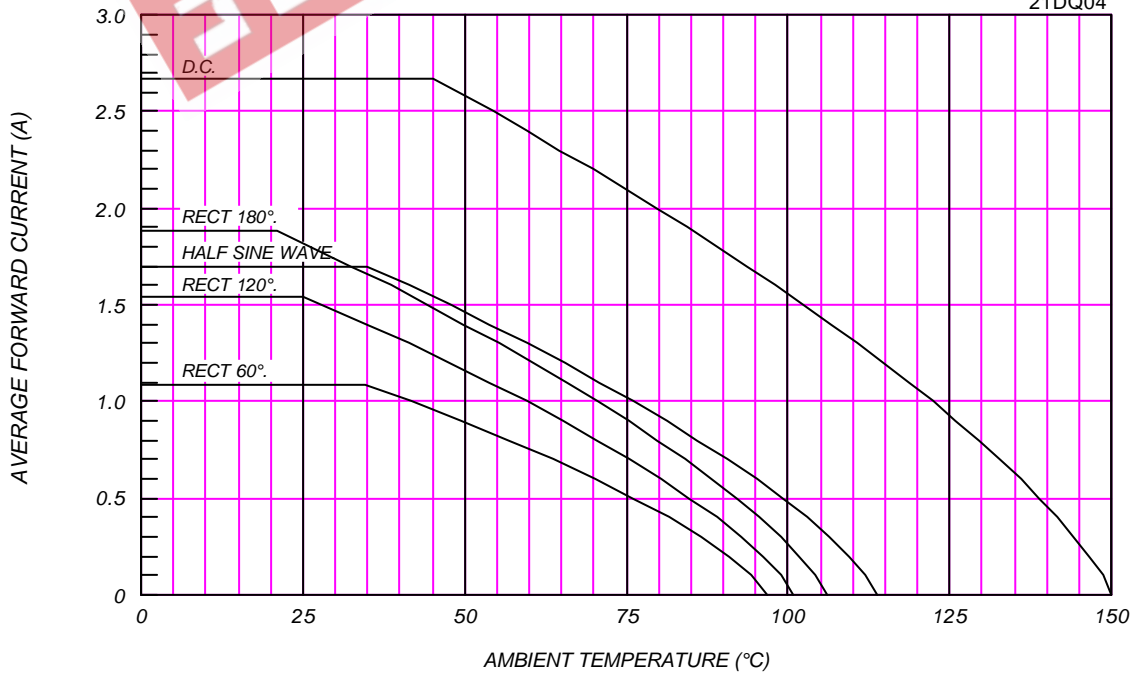
21DQ04



### AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=8mm, Print Land=10x10mm),  $V_{RM}=40V$

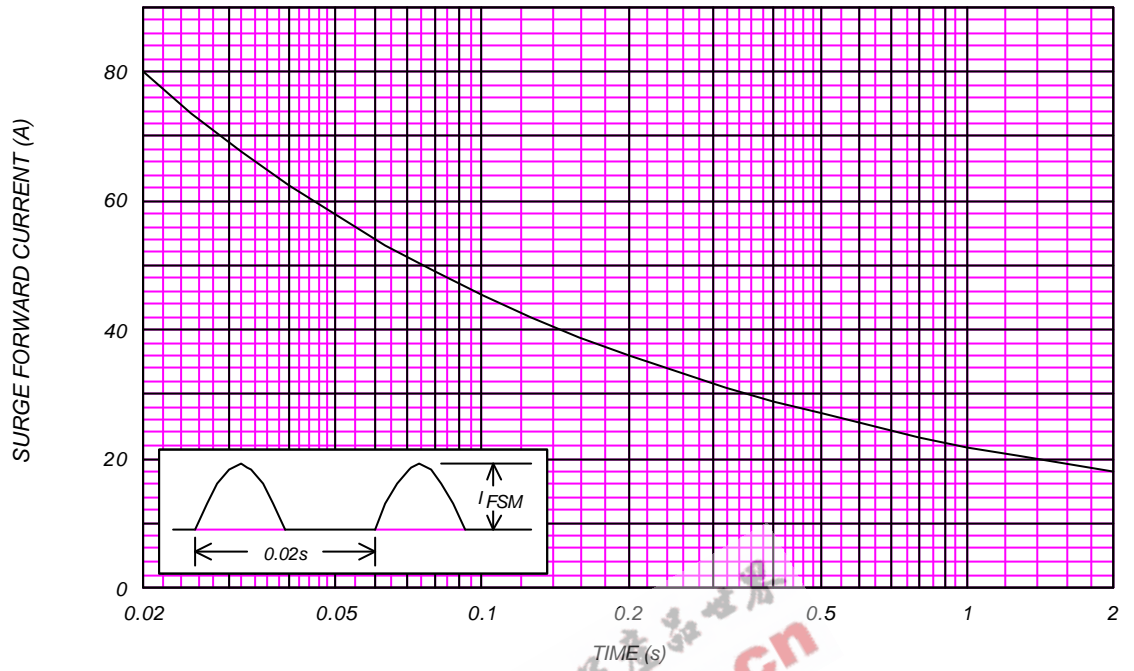
21DQ04



### SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

21DQ04



### JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j = 25^\circ\text{C}$ ,  $V_m = 20\text{mV}_{RMS}$ ,  $f = 100\text{kHz}$ , Typical Value

21DQ04

