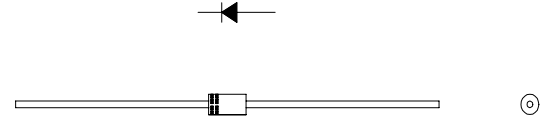


1A 400V 120ns

OUTLINE DRAWING

FRD Type : 10DRA40
FEATURES

- * Miniature Size
- * Super Fast Recovery
- * Low Forward Voltage drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 100 Volts thru 600 Volts Types Available
- * 52mm Inside Tape Spacing Package Available


Maximum Ratings

Approx Net Weight:0.33g

Rating	Symbol	10DRA40			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400			V
Average Rectified Output Current	I_O	1.0	$T_a=58^{\circ}\text{C}$ *1	50Hz Half Sine Wave Resistive Load	A
		0.9	$T_a=35^{\circ}\text{C}$ *2		
RMS Forward Current	$I_{F(RMS)}$	1.57			A
Surge Forward Current	I_{FSM}	35	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			$^{\circ}\text{C}$

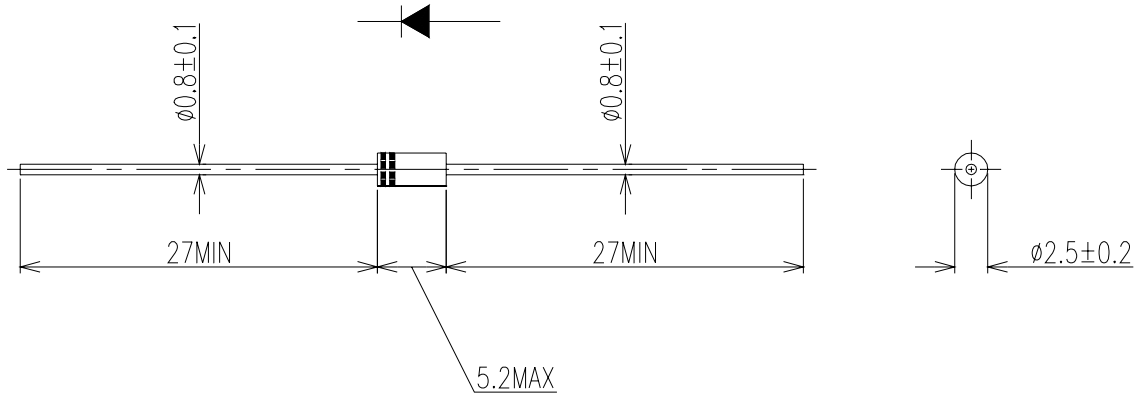
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^{\circ}\text{C}$, $V_{RM} = V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 1.0\text{A}$	-	-	1.13	V
Reverse Recovery Time	t_{rr}	$T_a = 25^{\circ}\text{C}$, $I_{FM} = 1\text{A}$, $-di/dt = 50\text{A}/\mu\text{s}$			120	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	-	-	81	$^{\circ}\text{C}/\text{W}$
					115	

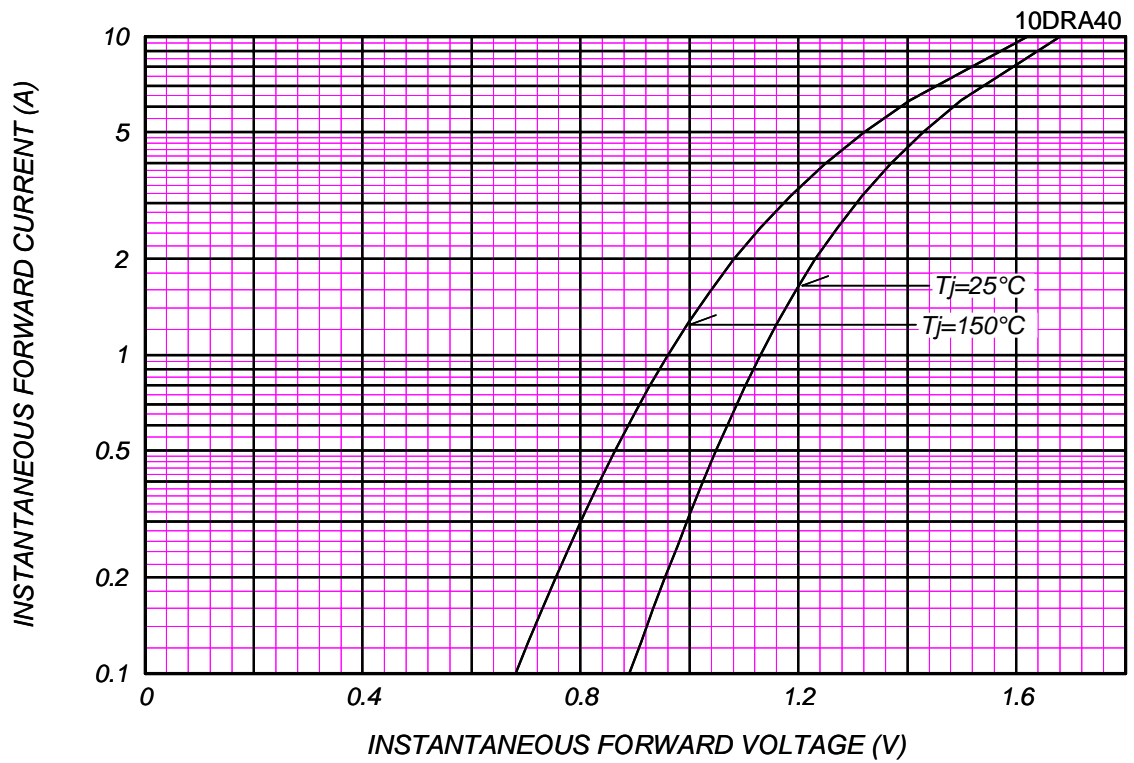
*1 : P.C. Board mounted (L=8mm, Print Land=10x10mm, Both Sides)

*2 : Without Fin or P.C. Board mounted

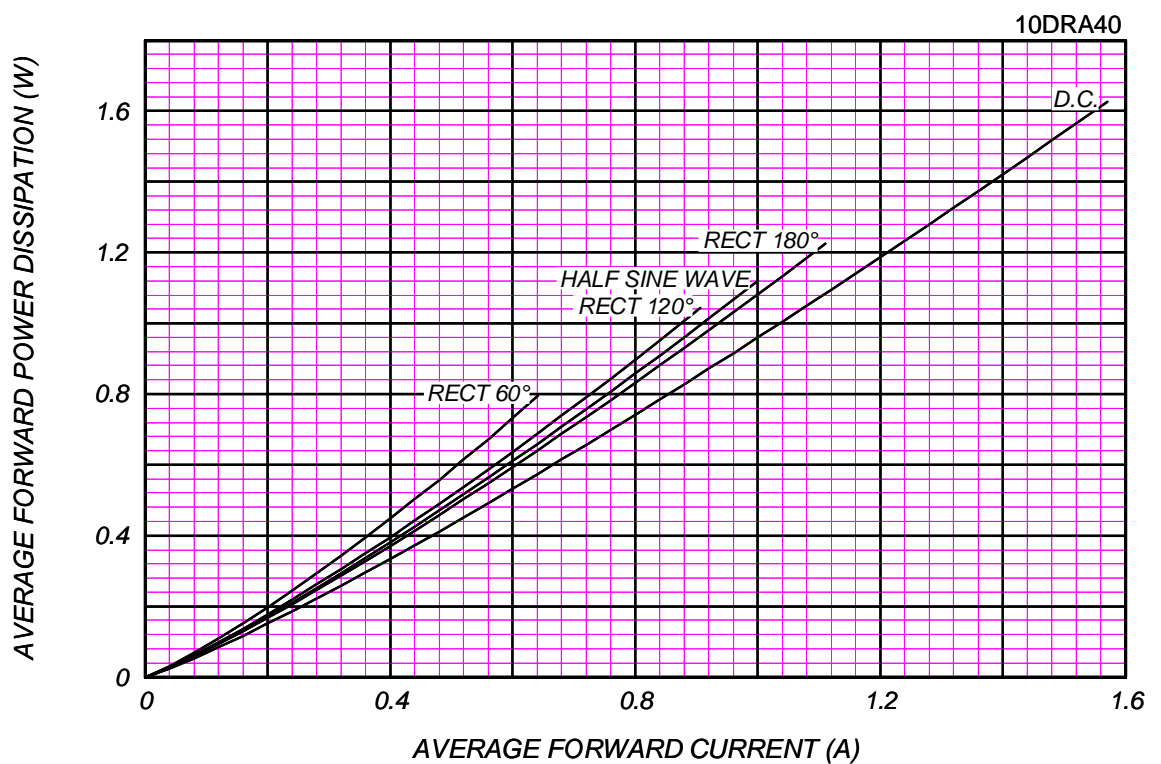
10DRA_ OUTLINE DRAWING (Dimensions in mm)

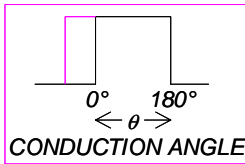


FORWARD CURRENT VS. VOLTAGE



AVERAGE FORWARD POWER DISSIPATION

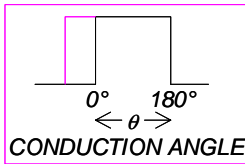
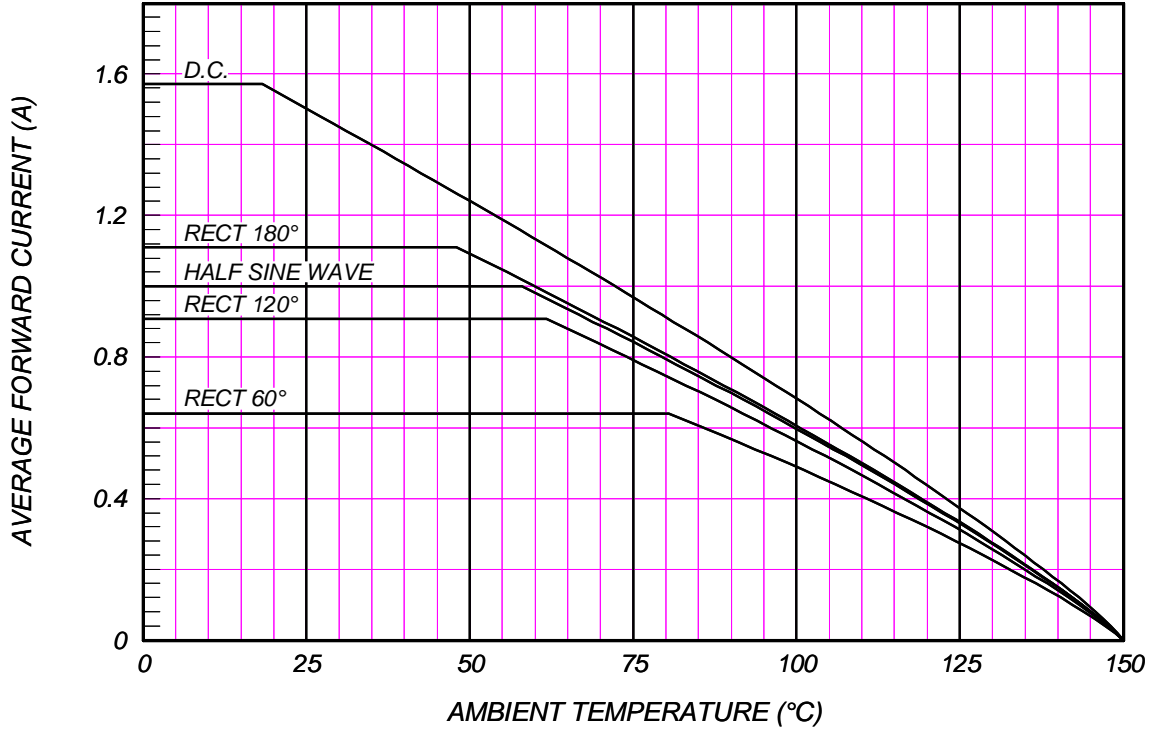




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=8mm,Print Land=10×10mm,Both Sides)

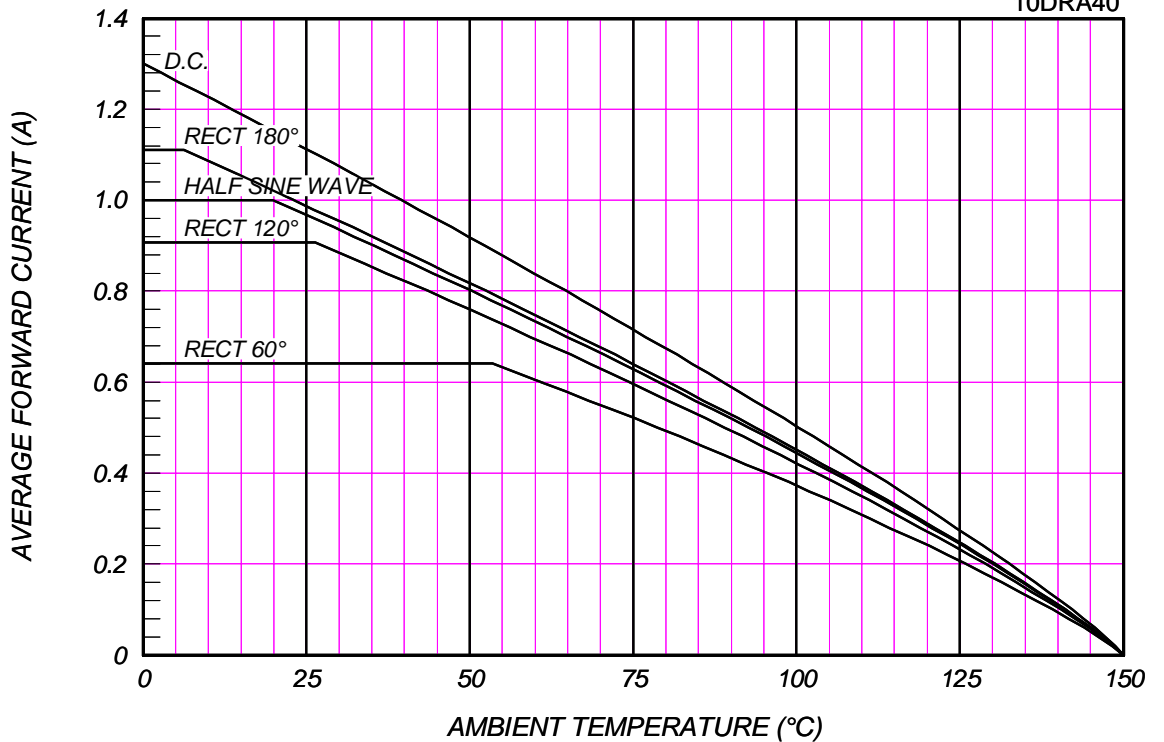
10DRA40



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board

10DRA40



SURGE CURRENT RATINGS

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

10DRA40

