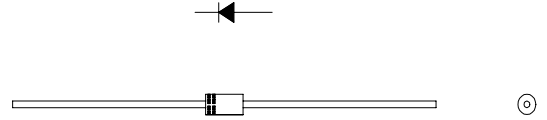


1A 100V 60ns

OUTLINE DRAWING

FRD Type : 10DRA10
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	10DRA10		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100		V
Average Rectified Output Current	I_O	1.0	Ta=68°C *1 50Hz Half Sine Wave Resistive Load Ta=35°C *2	A
RMS Forward Current	$I_{F(RMS)}$	1.57		A
Surge Forward Current	I_{FSM}	45	50Hz Half Sine Wave, 1cycle, Non-repetitive	A
Operating Junction Temperature Range	T_{jw}	- 40 to + 150		°C
Storage Temperature Range	T_{stg}	- 40 to + 150		°C

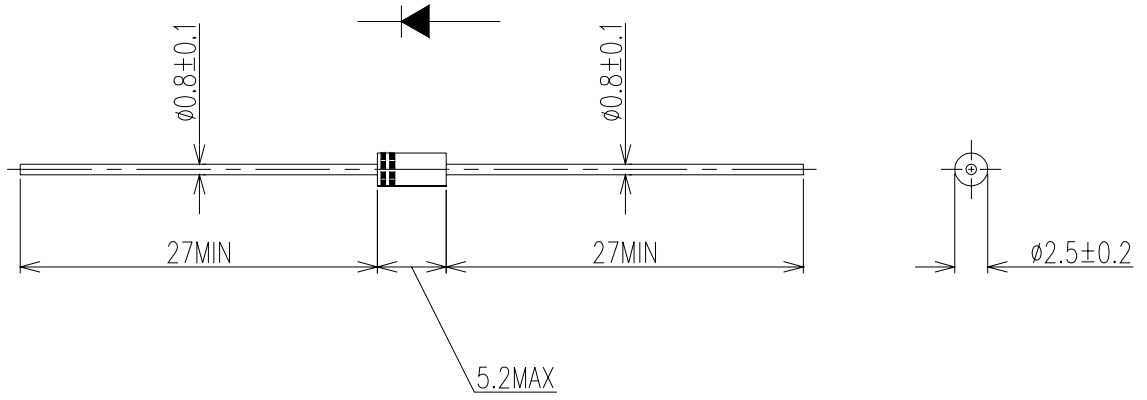
Electrical • Thermal Characteristics

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}	$T_j = 25^\circ\text{C}$, $I_{FM} = 1.0\text{A}$	-	-	1.03	V	
Reverse Recovery Time	trr	$T_a = 25^\circ\text{C}$, $I_{FM} = 1\text{A}$, $-di/dt = 50\text{A}/\mu\text{s}$			60	ns	
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	*1:P.C.Board mounted	-	-	81	°C/W
			*2:Without Fin or P.C.Board mounted	-	-	115	

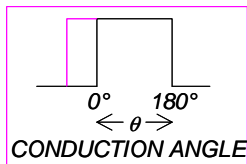
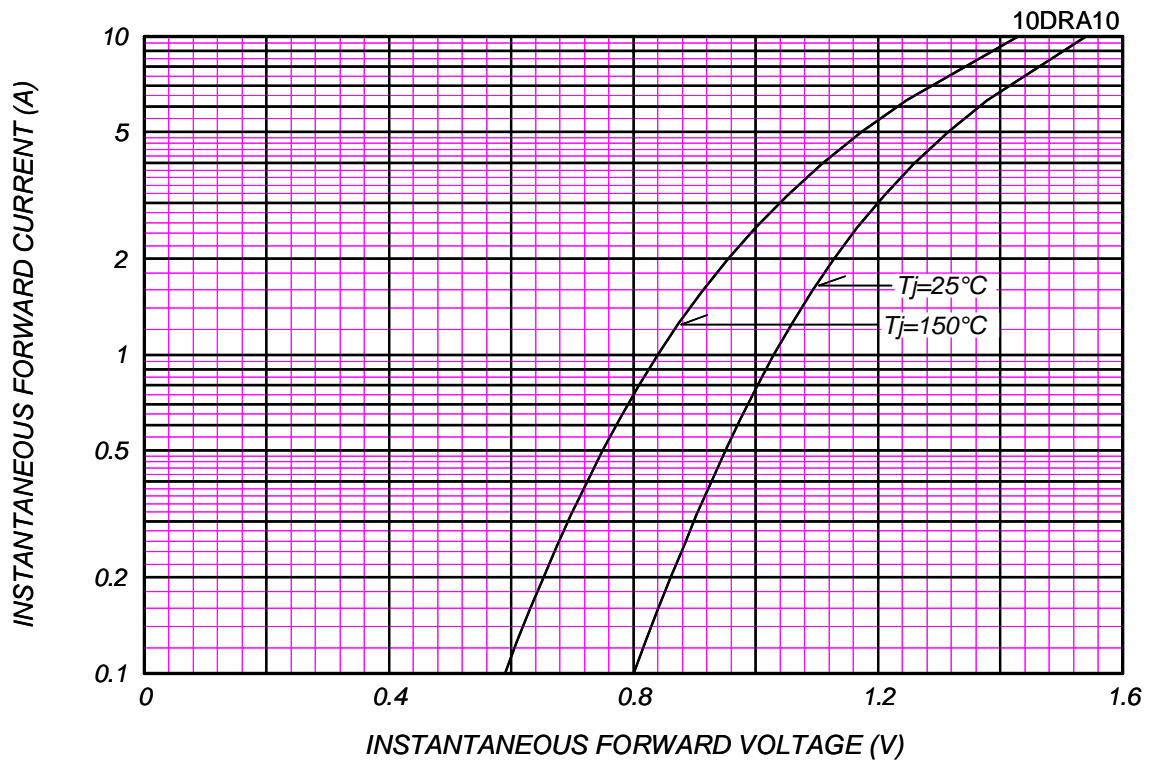
*1 : P.C. Board mounted (L=8mm, Print Land=10x10mm, Both Sides)

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

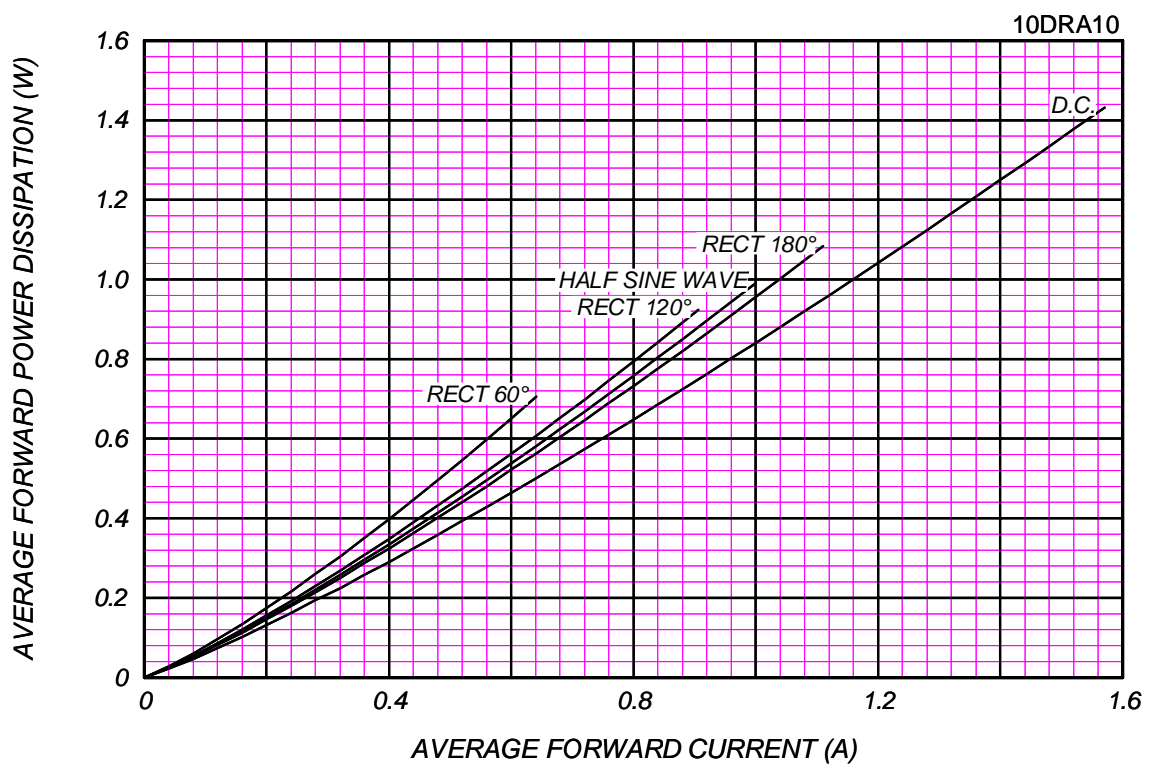
10DRA_ OUTLINE DRAWING (Dimensions in mm)

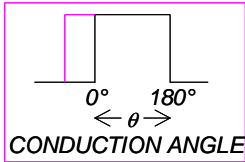


FORWARD CURRENT VS. VOLTAGE



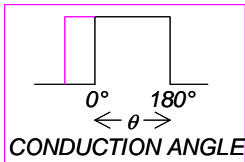
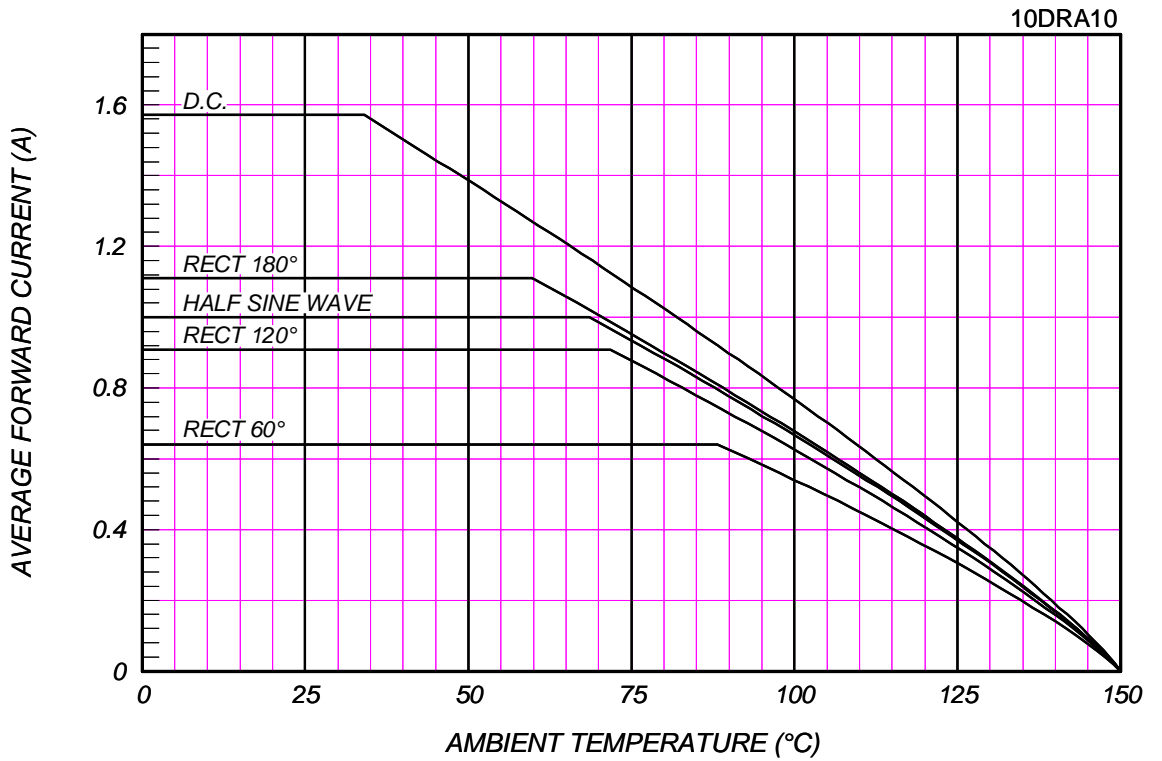
AVERAGE FORWARD POWER DISSIPATION





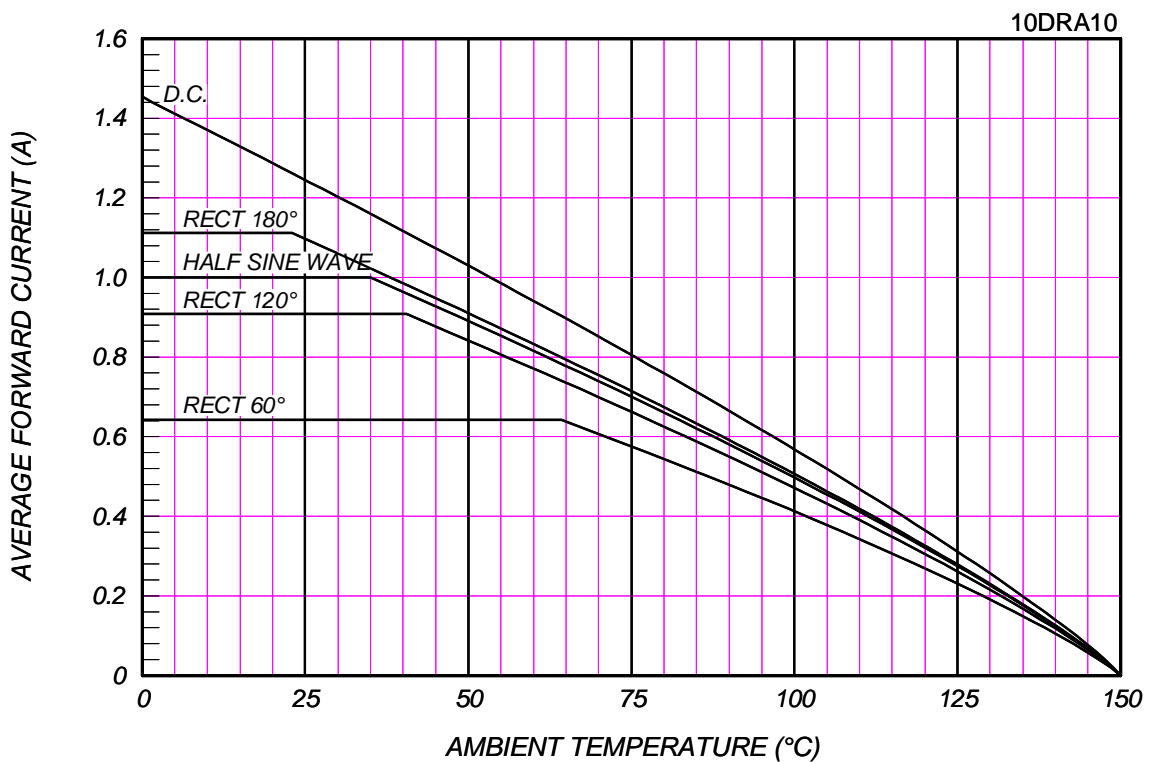
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

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



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



SURGE CURRENT RATINGS

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

10DRA10

