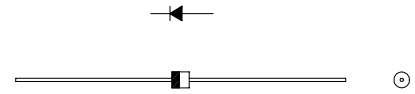


1A 400V 120ns

OUTLINE DRAWING

FRD Type :10ERB40
FEATURES

- * Miniature Size
- * Fast Recovery and Low Price
- * High Surge Capability
- * 100volts trough 600volts Types Available
- * 26mm and 52mm Inside Tape Spacing


Maximum Ratings

Approx Net Weight:0.17g

Rating	Symbol	10ERB40			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	400			V
Average Rectified Output Current	I _O	1.0	Ta=37°C *1	Half Sine Wave Resistive Load	A
		0.8	Ta=29°C *2		
RMS Forward Current	I _{F(RMS)}	1.57			A
Surge Forward Current	I _{FSM}	35	Half Sine Wave,1cycle,Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			°C
Storage Temperature Range	T _{stg}	- 40 to + 150			°C

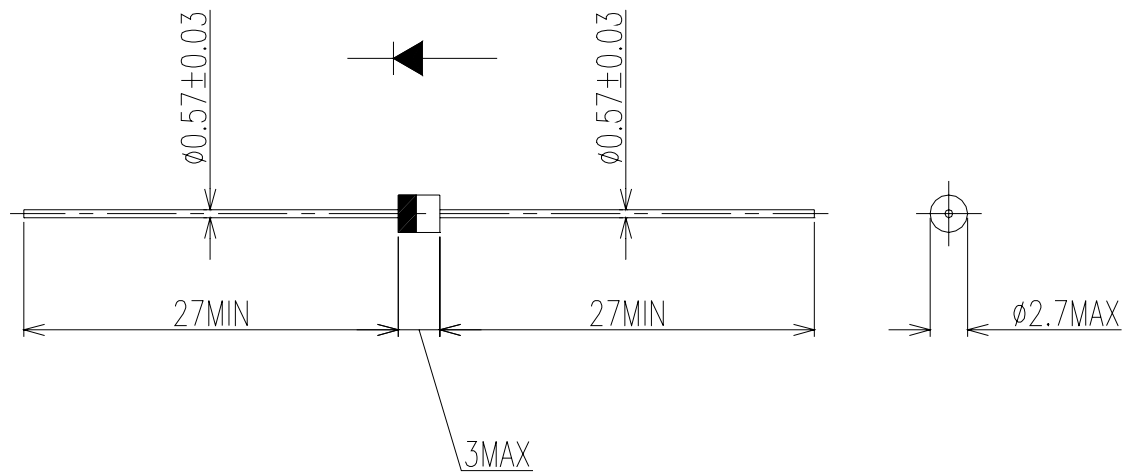
Electrical • Thermal Characteristics

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}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 1\text{ A}$	-	-	1.13	V
Reverse Recovery Time	t_{rr}	$I_{FM} = 1\text{ A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_a = 25^{\circ}\text{C}$	-	-	120	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	-	-	100	$^{\circ}\text{C}/\text{W}$
		*1 P.C. Board mounted *2 Without Fin or P.C. Board mounted			140	

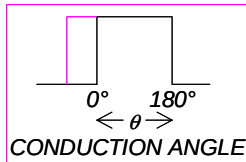
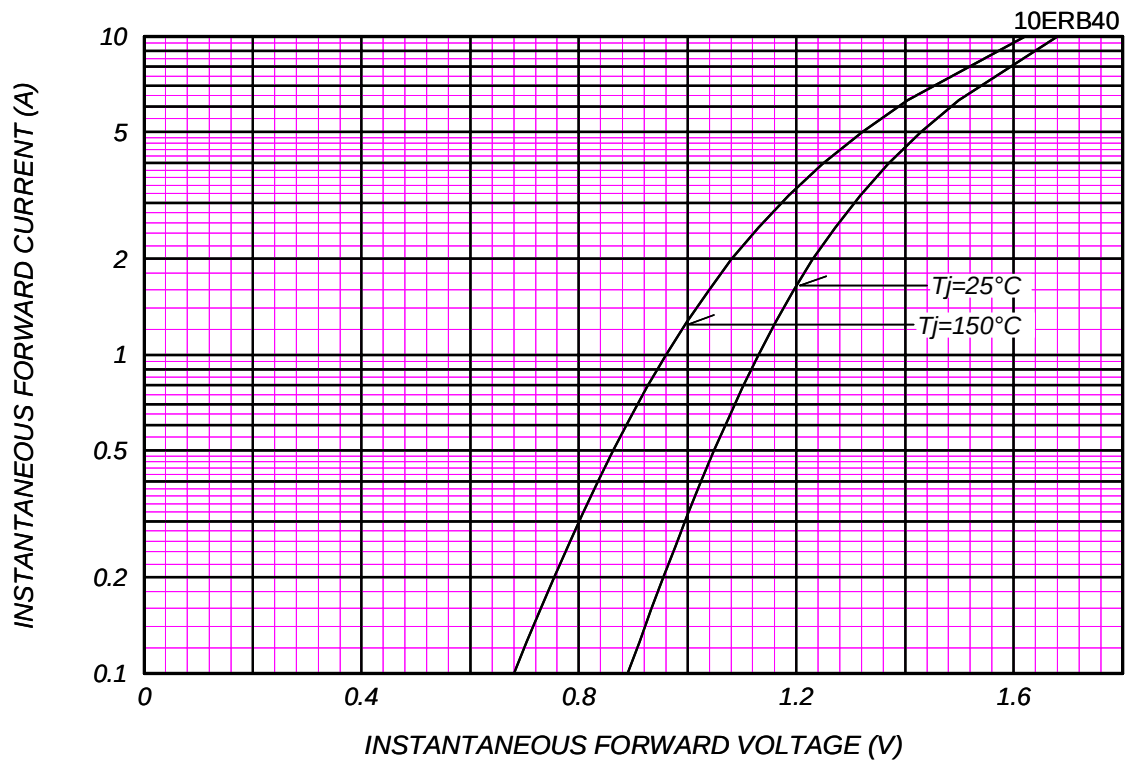
*1: P.C. Board mounted (L=3mm, Print Lands = 7x7 mm,Both Sides)

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

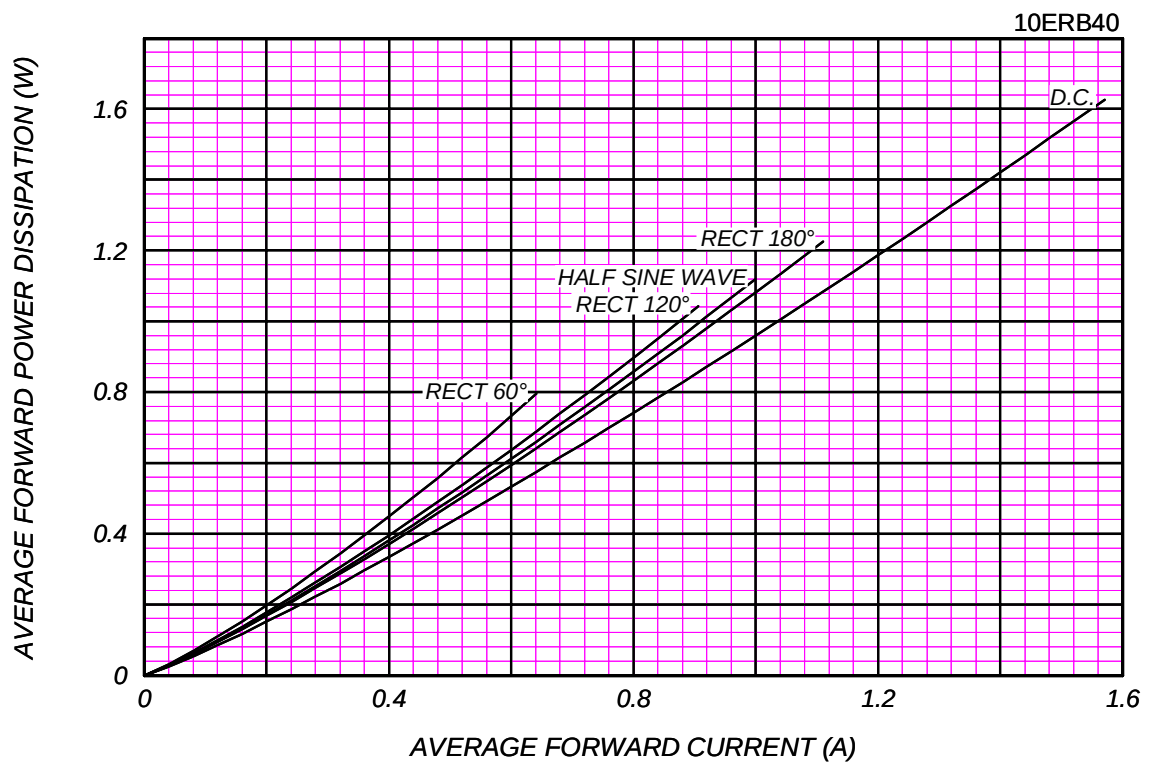
10ERB_ OUTLINE DRAWING (Dimensions in mm)

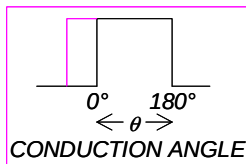


FORWARD CURRENT VS. VOLTAGE



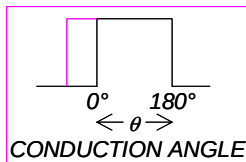
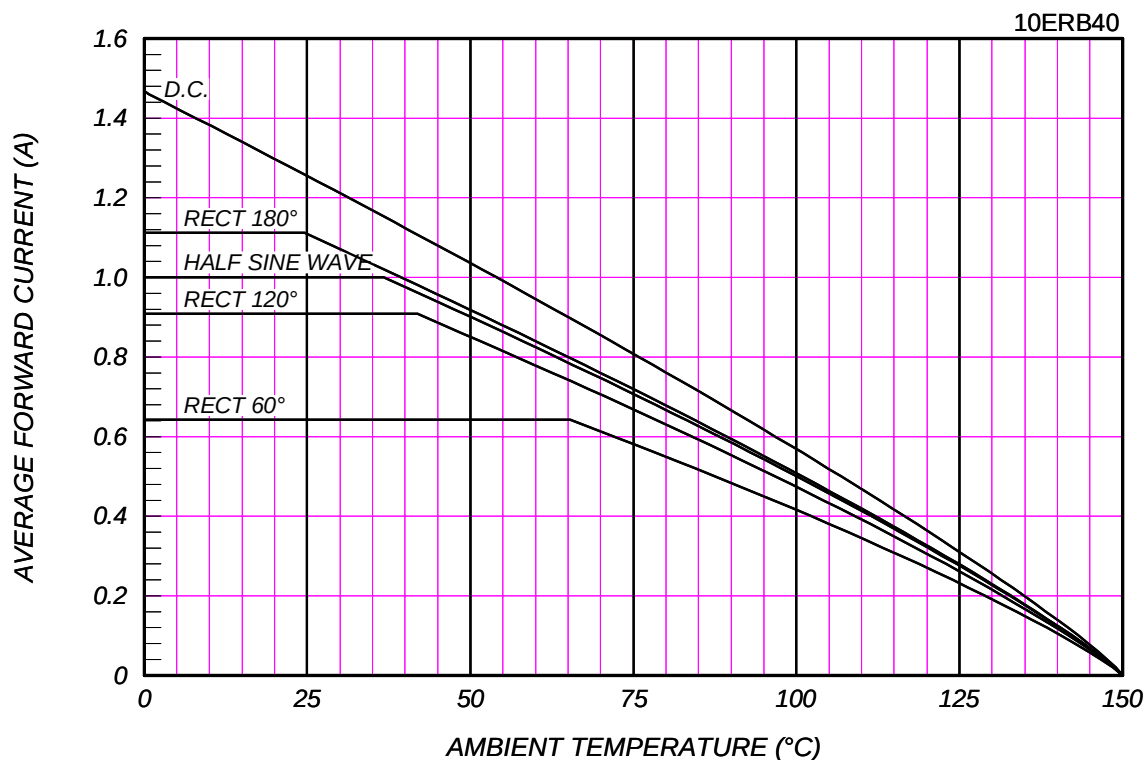
AVERAGE FORWARD POWER DISSIPATION





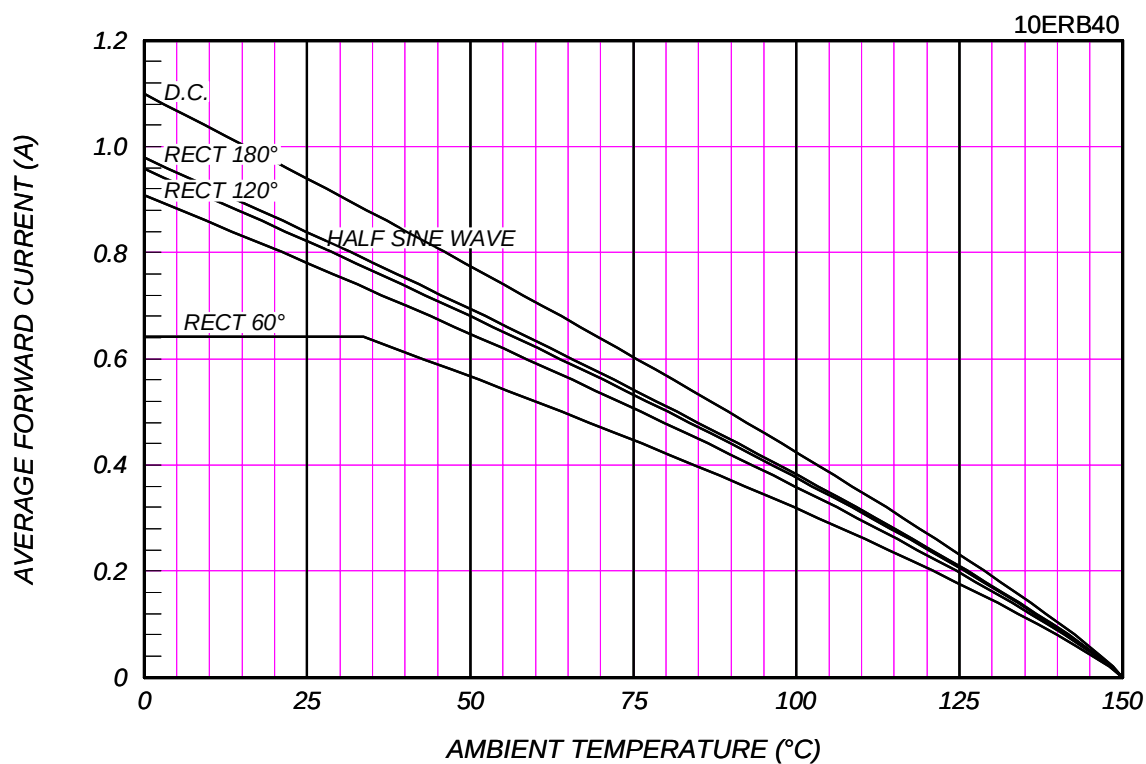
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=3mm,Print Land=7×7mm,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

10ERB40

