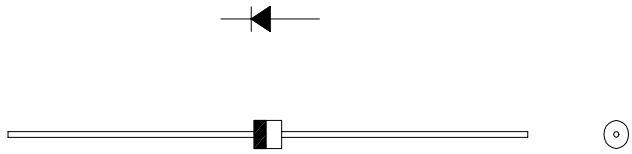
Nihon Inter Electronics Corporation

DIODE Type : 10EDA60

1A 600V Tj =150 ℃

OUTLINE DRAWING



FEATURES

* Miniature Size
* Low Forward Voltage drop
* Low Reverse Leakage Current
* High Surge Capability
* 26mm and 52mm Inside Tape Spacing Package Available

Maximum Ratings

Approx Net Weight:0.17g

Rating	Symbol	10EDA60			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600			V
Average Rectified Output Current	I_O	50Hz Half Sine Wave Resistive Load	Ta=39℃ *1	1.0	A
			Ta=26℃ *2	0.9	
RMS Forward Current	$I_{F(RMS)}$			1.57	A
Surge Forward Current	I_{FSM}	50Hz Half Sine Wave,1cycle, Non-repetitive		45	A
Operating JunctionTemperature Range	T_{jw}	- 40 to + 150			℃
Storage Temperature Range	T_{stg}	- 40 to + 150			℃

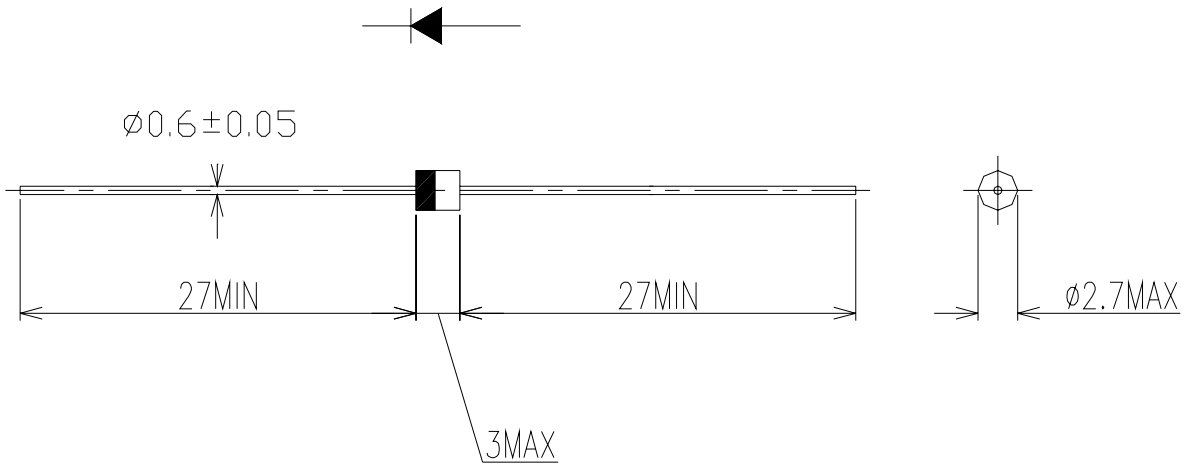
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions		Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}		-	-	10	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1.0A		-	-	1.0	V
Thermal Resistance	Rth(j-a)	Junction to Ambient	P.C. Board mounted*1	-	-	110	℃/W
			Without Fin *2	-	-	140	

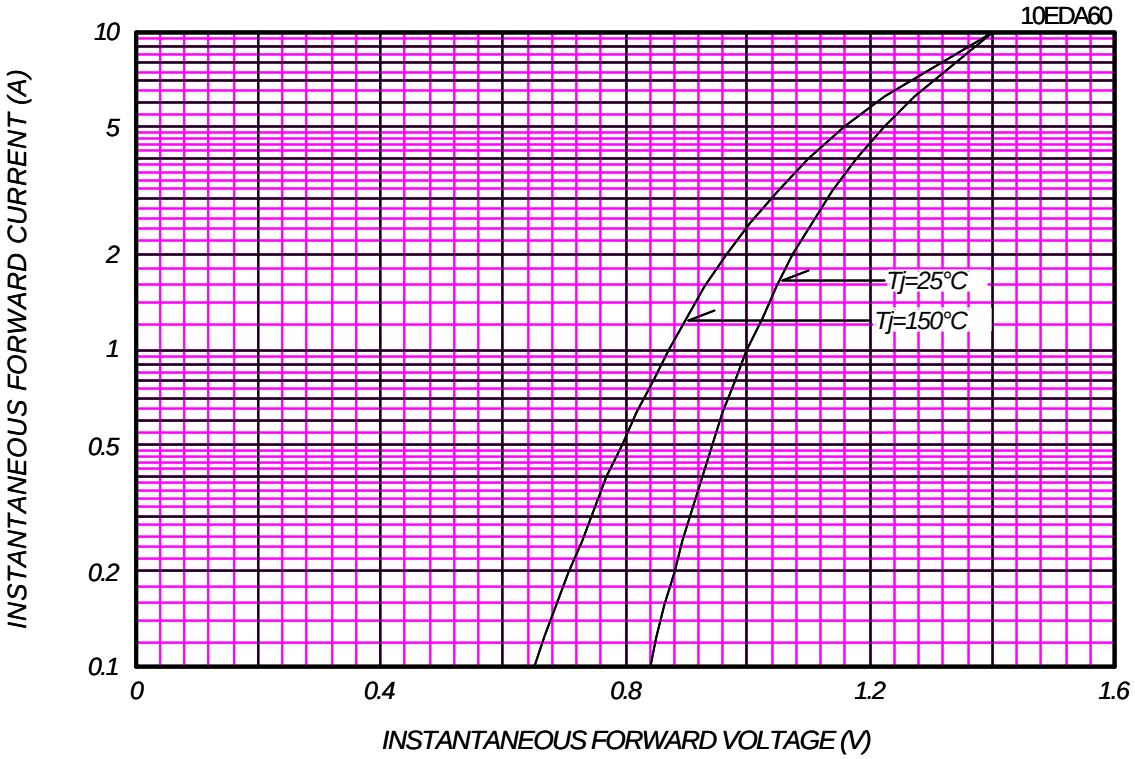
*1: P.C. Board mounted (L=3mm, Print Land=5 x 5mm, Both Sides)

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

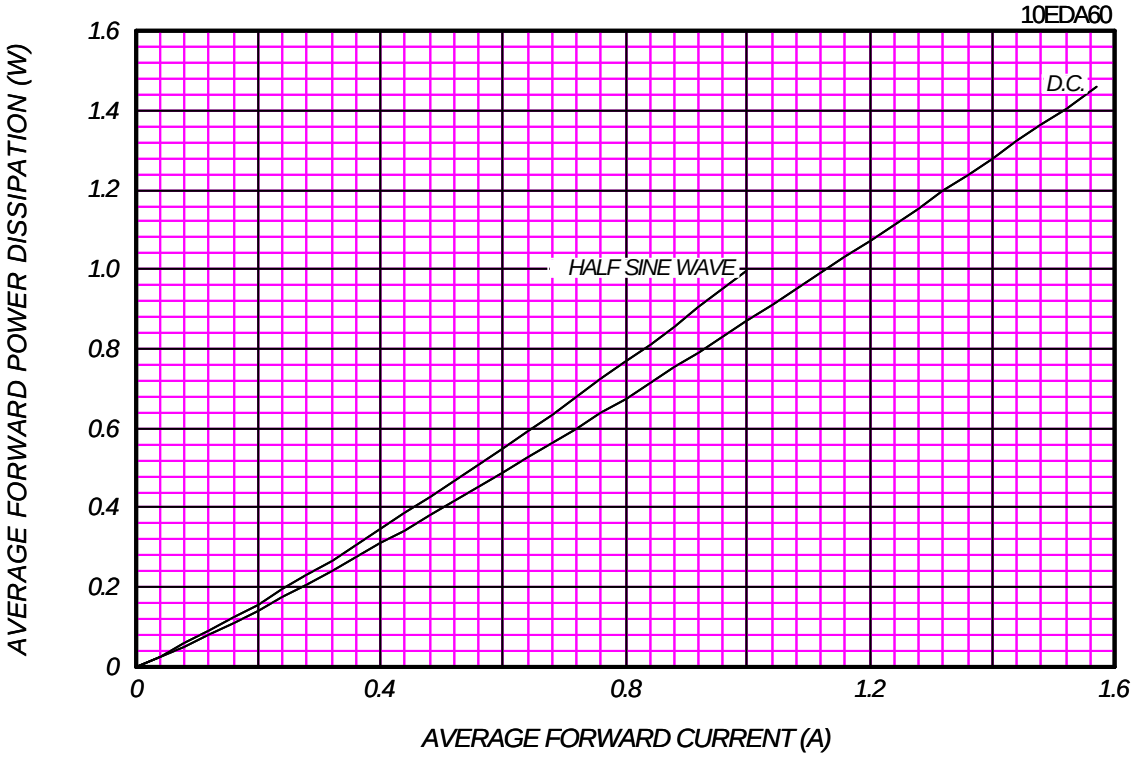
10EDA OUTLINE DRAWING (Dmensions in mm)



FORWARD CURRENT VS. VOLTAGE

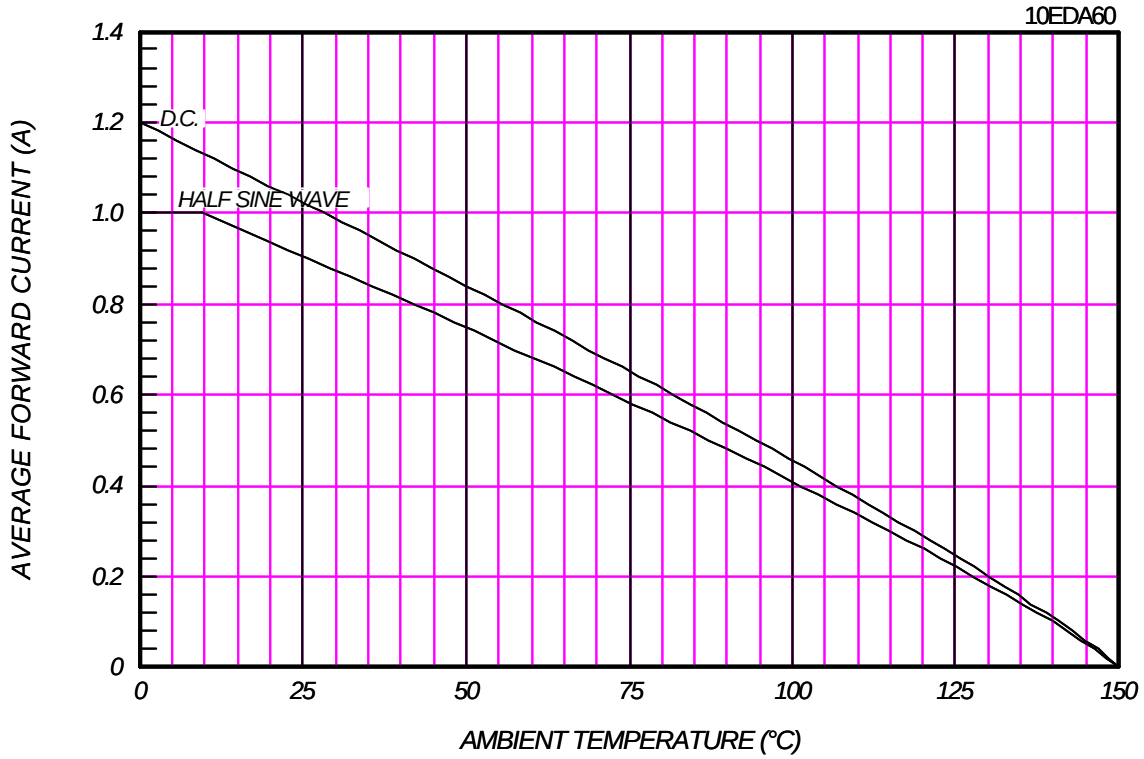


AVERAGE FORWARD POWER DISSIPATION



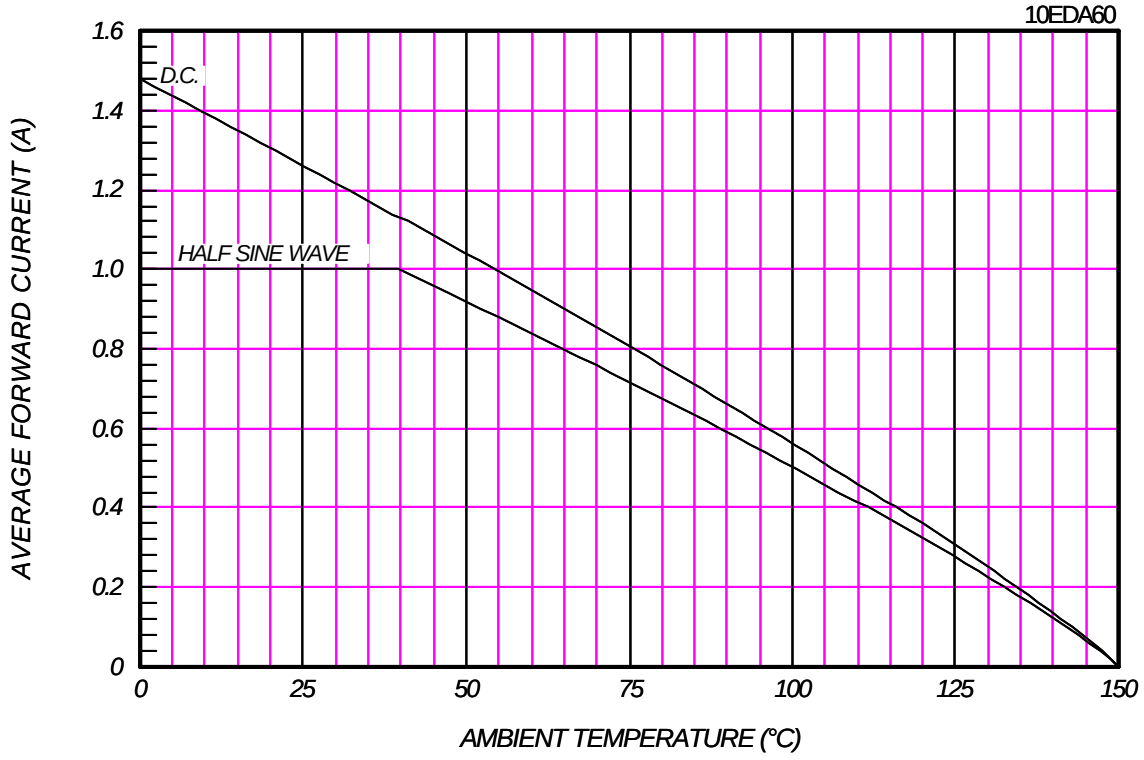
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

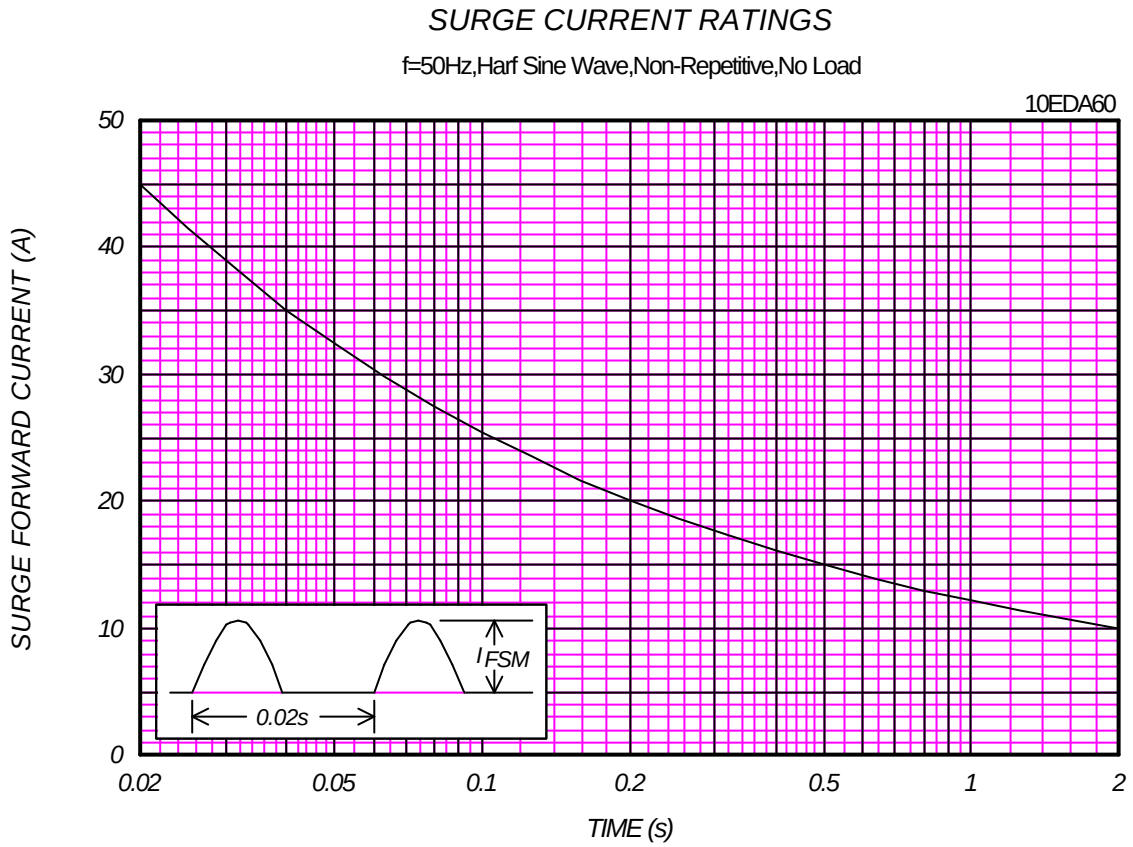
Without Fin or P.C. Board



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=3mm,Print Land=5×5mm,Both Sides))




SURGE CURRENT RATINGS
f=50Hz,Harf Sine Wave,Non-Repetitive,No Load
10EDA60
SURGE FORWARD CURRENT (A)
50
40
30
20
10
0
0.02
0.05
0.1
0.2
0.5
1
2
TIME (s)
I FSM
0.02s