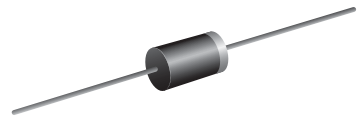
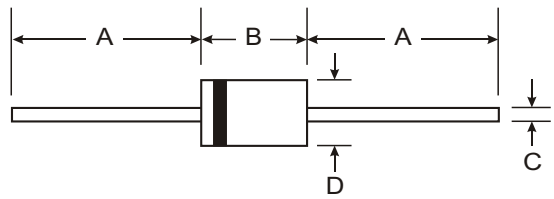
10EDB60

AXIAL LEADED SILICON RECTIFIER DIODES

VOLTAGE RANGE: 600V
CURRENT: 1.0 A





Features

- Miniature Size
- Low Forward Voltage drop
- Low Reverse Leakage Current
- High Surge Capability

Mechanical Data

- Case: D O - 4 1
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

RoHS COMPLIANT

DO-41		
Dim	**Min**	**Max**
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

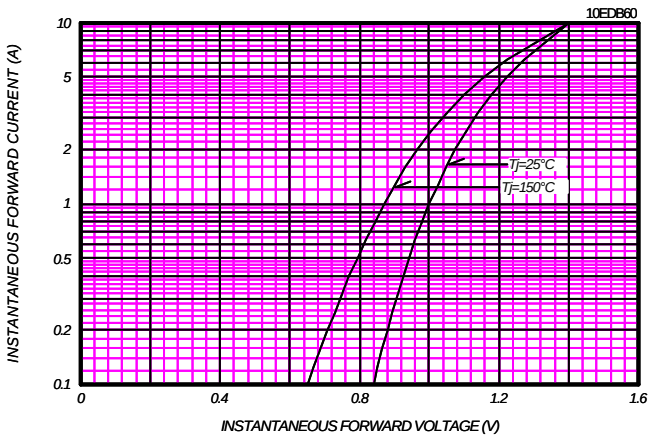
Characteristic	**Symbol**	10EDB60	**Unit**
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Rectified Output Current Ta=39 °C *1 50Hz Half Sine Wave Resistive Load Ta=26 °C *2	I_O	1.0 0.9	A
RMS Forward Current Surge Forward Current 50Hz Half Sine Wave,1cycle, Non-repetitive	$I_{F(RMS)}$	1.57	A
Surge Forward Current	I_{FSM}	45	A
Operating JunctionTemperature Range	T_{jw}	- 40 to + 150	°C
Storage Temperature Range	T_{stg}	- 40 to + 150	°C

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

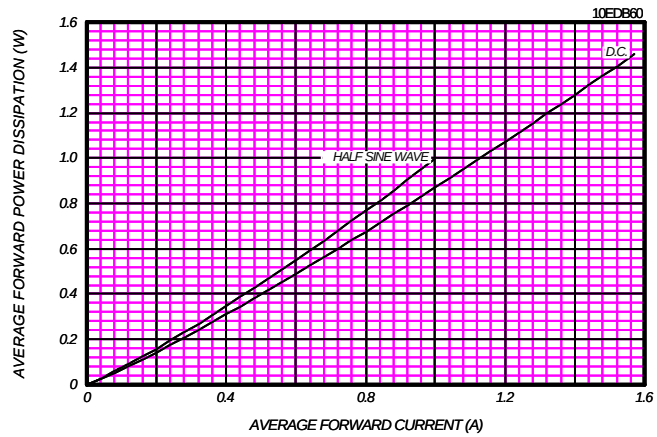
*1: P.C. Board mounted (L=3mm, Print Land=5 x 5mm, Both Sides)

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

FORWARD CURRENT VS. VOLTAGE

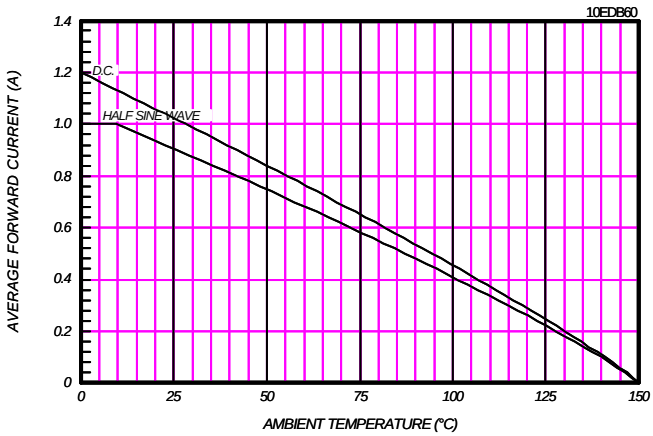


AVERAGE FORWARD POWER DISSIPATION



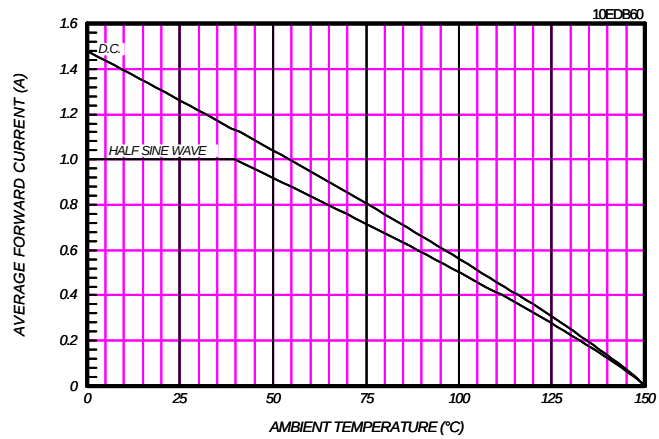
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

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