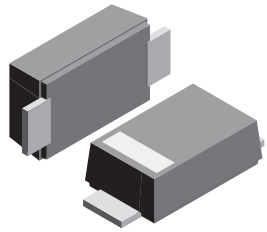
EP05Q06

STANDARD RECOVERY DIODE

VOLTAGE RANGE: 60V
CURRENT: 0.5A



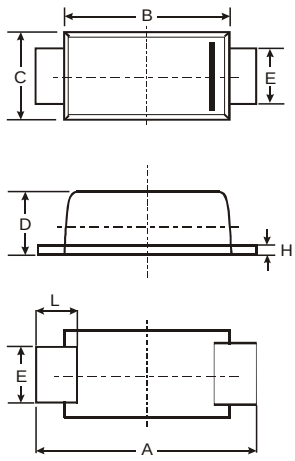
Features

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 250℃/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: SOD-123FL plastic body over passivated junction
- Terminals: Plated axial leads,
- solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position : Any
- Weight:0.0007 ounce, 0.02 grams

RoHS COMPLIANT



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

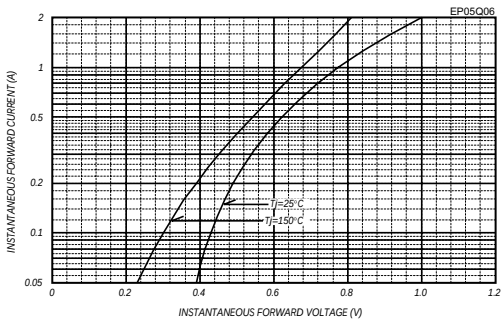
Maximum Ratings @ T_A = 25°C unless otherwise specified

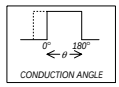
Characteristic	Symbol	Limits	Unit
RepetitivePeak Reverse Voltage	VRRM	60	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load	IO	0.40 0.5	A
R.M.S.Forward Current	IF(RMS)	0.785	A
Surge Forward Current 50Hz Half Sine Wave,Icycle,Non-repetitive	IFSM	8	A
Operating Junction Temperature Range	Tjw	-40 to +150	°C
Storage Temperature Range	Tstg	-40 to +150	°C

Electrical Characteristics

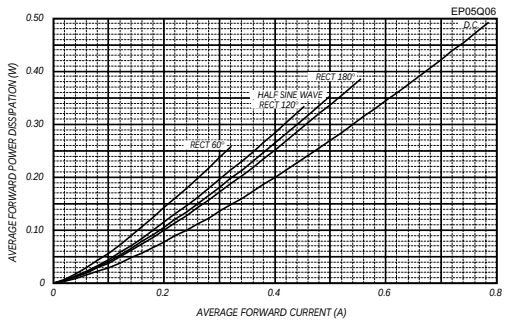
Characteristic	Symbol	Min	Typ	Max	Unit
Peak Reverse Current	IRM	-	-	100	μA
Peak Forward Voltage	VFM	-	-	0.62	V
Thermal Resistance Junction to Ambient	Rth(j-a)	-	-	300	C /W
		-	-	70	

FORWARD CURRENT VS. VOLTAGE



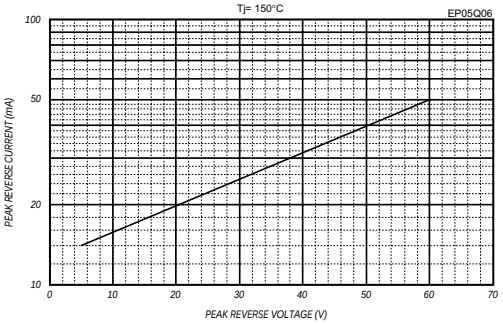


AVERAGE FORWARD POWER DISSIPATION

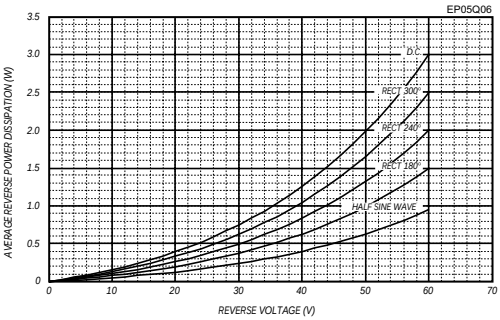


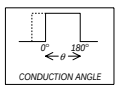
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

Tj= 150°C



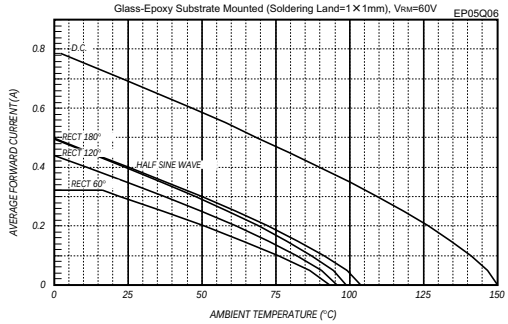
AVERAGE REVERSE POWER DISSIPATION

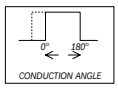




AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

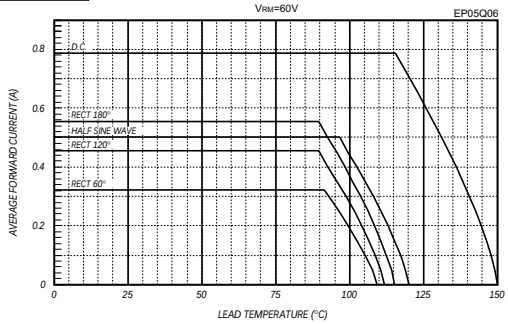
Glass-Epoxy Substrate Mounted (Soldering Land=1×1mm), V_{RM}=60V





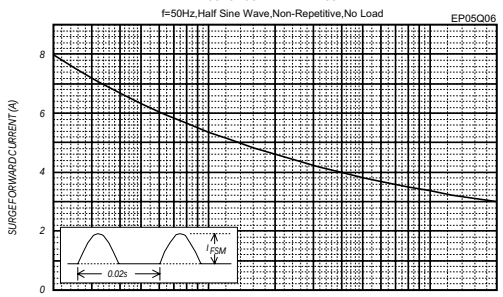
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

V_{RM}=60V



SURGE CURRENT RATINGS

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



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25°C,Vm=20mV$_{RMS}$, f=100kHz, Typical Value