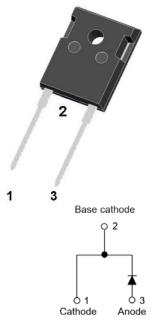
General Purpose Rectifier Diodes



Features

- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Application

Input rectification

Mechanical Data

- Package: TO-247-2L
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	60EPS12	60EPS16
Device marking code			60EPS12	60EPS16
Repetitive Peak Reverse Voltage	VRRM	V	1200	1600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	lo	А	6	0
Surge(Non-repetitive) Forward Current @50Hz half sine-wave, 1 cycle, T _a =25°C	IFSM	А	950	
Current Squared Time @1ms≤t≤10ms Tj=25°C	l ² t	A ² s.	45	25
Storage Temperature	T _{stg}	°	-55 ~	+150
Junction Temperature	Тј	°C	-55 ~ + 150	

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	60EPS12	60EPS16
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=30.0A	1.1	
			IFM=60.0A	1.3	
	IRRM1	uA	VRM=VRRM T _a =25°C	5	
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM2		VRM=VRRM T _a =125°C	500	
	IRRM2		VRM=VRRM T _a =150°C	1000	

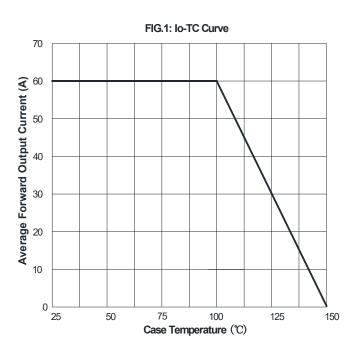
Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

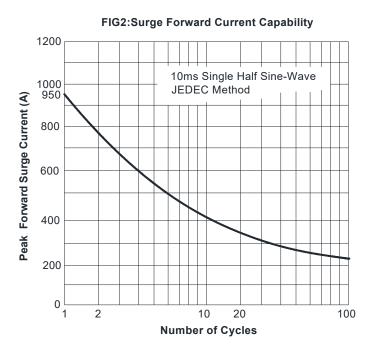
PARAMETER			UNIT	60EPS12	60EPS16
Typical Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	°CW	40	
	Between junction and case	R _{eJ-C}	CVV	0.35	

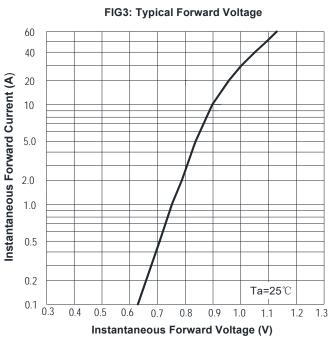
■Ordering Information (Example)

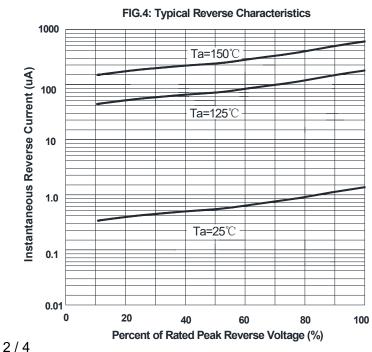
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
60EPS12 THRU 60EPS16	Approximate 6.0	33	330	1980	Tube

■Characteristics (Typical)



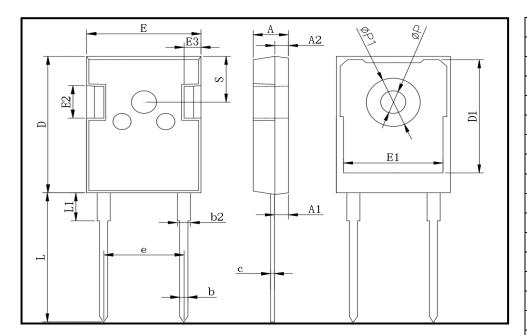








■Outline Dimensions



TO-247-2L				
Dim	Min	Max		
Α	4.80	5.20		
A1	2.21	2.61		
A2	1.85	2.15		
b	1.00	1.40		
b2	1.91	2.21		
С	0.50	0.70		
D	20.70	21.30		
D1	16.25	16.85		
Е	15.50	16.10		
E1	13.00	13.60		
E2	4.80	5.20		
E3	2.30	2.70		
е	10.88 TYP			
L	19.62	20.22		
L1	-	4.30		
φР	3.40	3.80		
φP1	-	7.30		
S	6.15 TYP			



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