



- 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

- Input rectification

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

■ (T_a=25 Unless otherwise specified

Device marking code			45EPS16
Repetitive Peak Reverse Voltage	V _{RRM}	V	1600
Average Rectified Output Current @60Hz half sine-wave, R-load, T _c (FIG.1)	I _o	A	45
Surge(Non-repetitive) Forward Current @60Hz half sine-wave, 1 cycle, T _j =25	I _{FSM}	A	600
Current Squared Time @1ms≤t≤10ms T _j =25	I ² t	A ² s.	1494
Storage Temperature	T _{stg}		-55 ~ +150
Junction Temperature	T _j		-55 ~ +150

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage	V _{FM}	V	I _{FM} =45.0A T _a =25	1.4
			I _{FM} =45.0A T _a =125	1.3
Maximum DC reverse current at rated DC blocking voltage	I _{RRM1}	uA	V _{RM} =V _{RRM} T _a =25	10
	I _{RRM2}	mA	V _{RM} =V _{RRM} T _a	



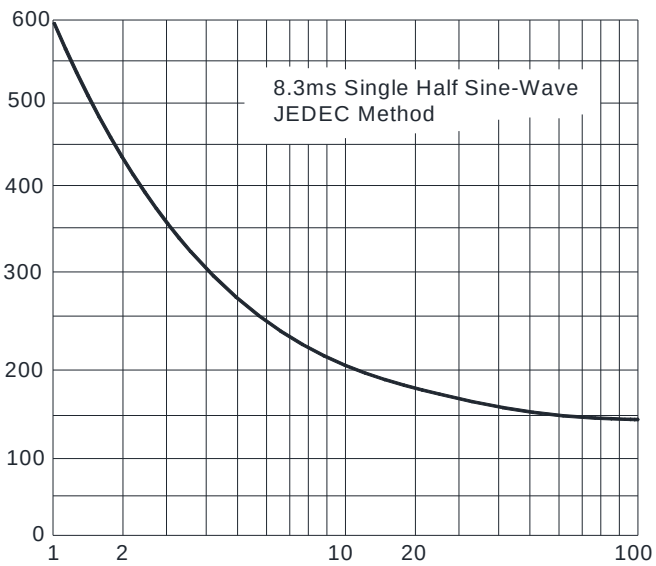
■ $T_a=25$ Unless otherwise specified

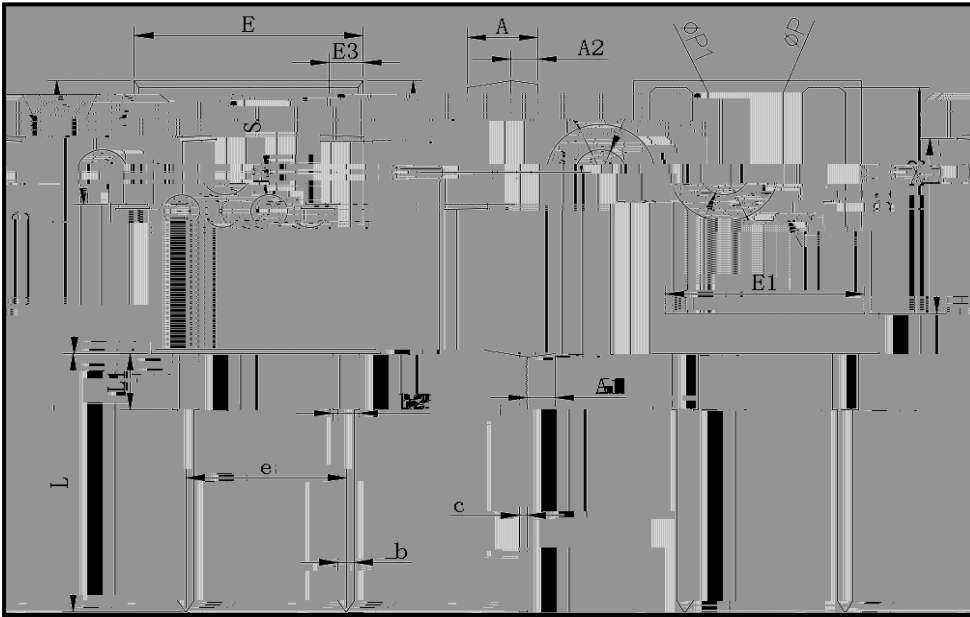
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	W	40
	Between junction and case	$R_{\theta J-C}$		5

■ (Example)

45EPS16	Approximate 6.0	30	360	1800	Tube

■ (Typical)





Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.00	1.40
b2	1.91	2.21
c	0.50	0.70
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.00	13.60
E2	4.80	5.20
E3	2.30	2.70
e	10.88 TYP	
L	19.62	20.22
L1	-	4.30
φ P	3.40	3.80
φ P1	-	7.30
S	6.15 TYP	
