ZP060*ZL06

ZP060*ZL06A

Features

- International standard package
- Planar glass passivated chips

Typical Applications

- High power rectifiers
- Field supply for DC motors
- Power supplies

$I_{F(AV)}$	**60A**
V_{RRM}	**1000V 1200V 1600V**
I_{FSM}	**600 A**
I^2t	**1800 A^2s**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T_j(°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T_C=100°C	175			60	A
$I_{T(RMS)}$	RMS on-state current						94	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		175	1000		1600	V
I_{RRM}	Repetitive peak current	at V_{RRM}		175			10	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		175			600	A
I^2t	I^2t for fusing coordination						1800	A^2s
V_{FO}	Threshold voltage			175			0.85	V
r_F	Forward slope resistance						2.3	mΩ
V_{FM}	Peak forward voltage	I_{FM}=180A		175			1.30	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Clamping force 2.4kN					1.08	°C /W
F_m	Mounting force					2.4	2.9	kN
T_{stg}	Stored temperature				-40		175	°C
T_{jm}	Junction temperature				-40		175	°C
W_t	Weight					15		g
Outline	ZL06/ZL06A							

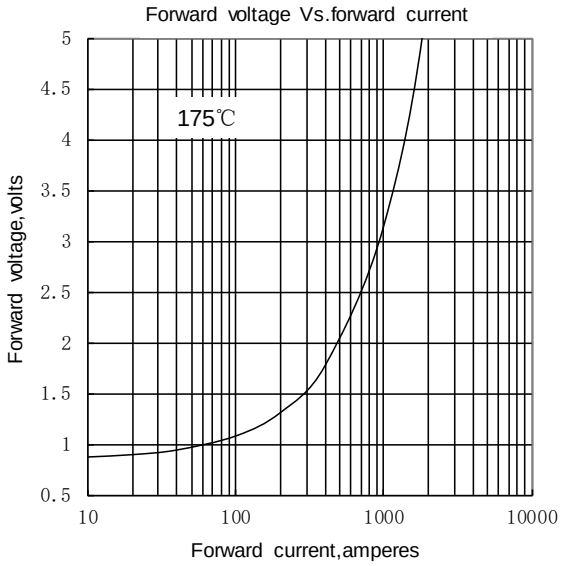


Fig.1

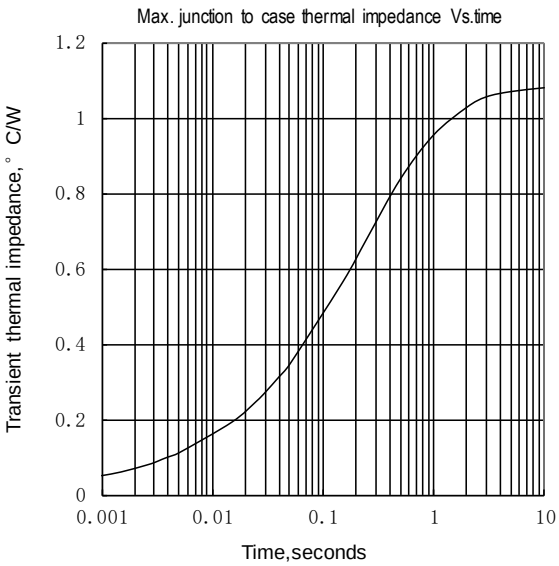


Fig.2

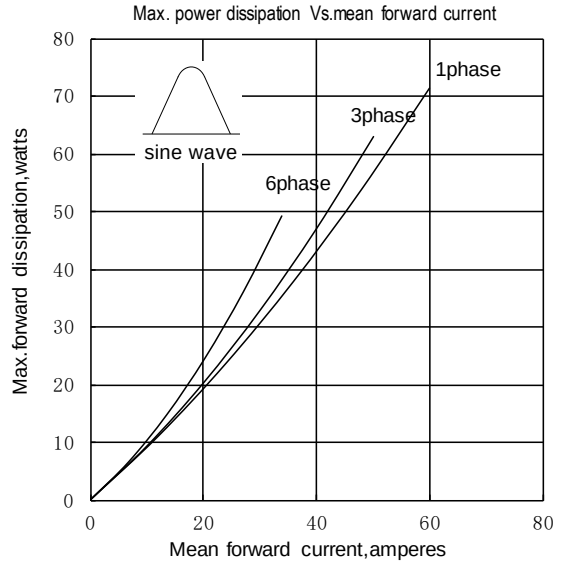


Fig.3

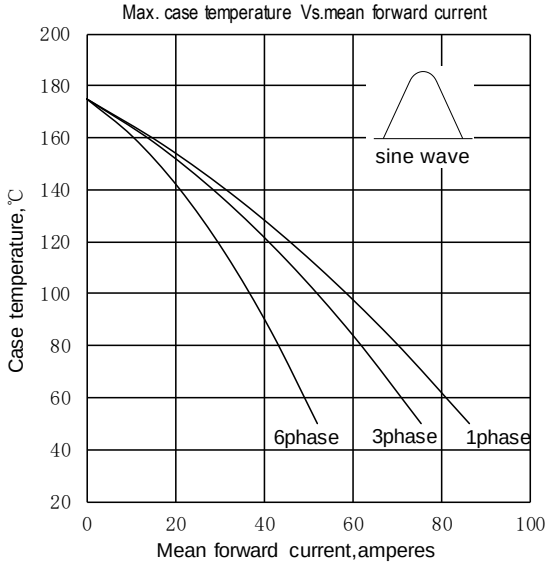


Fig.4

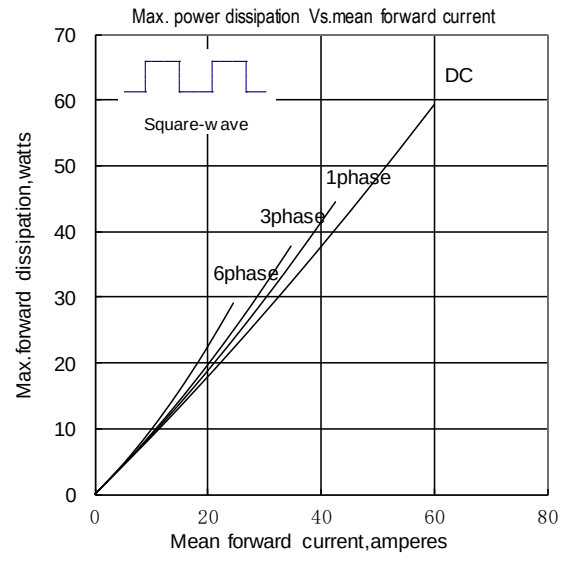


Fig.5

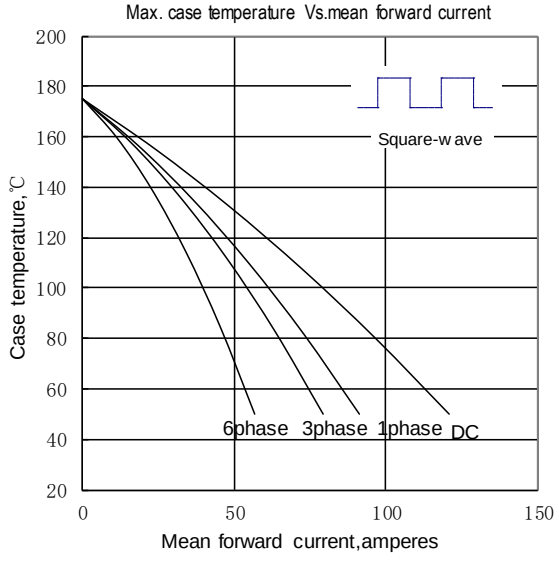


Fig.6

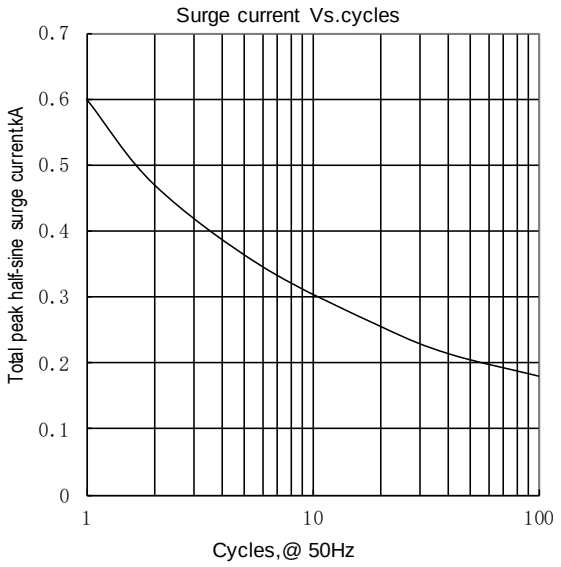


Fig.7

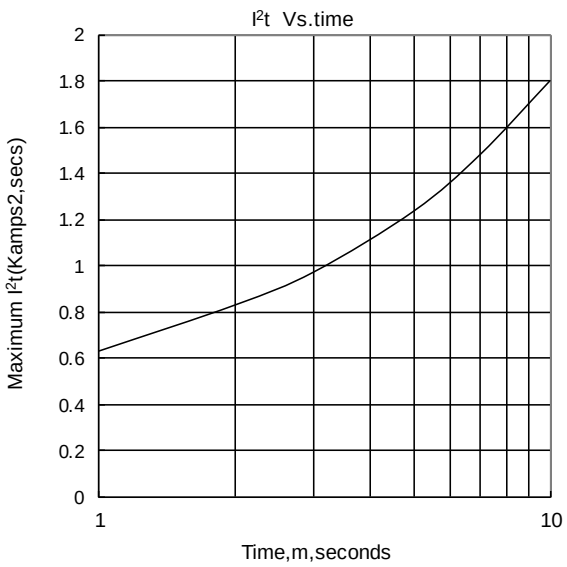
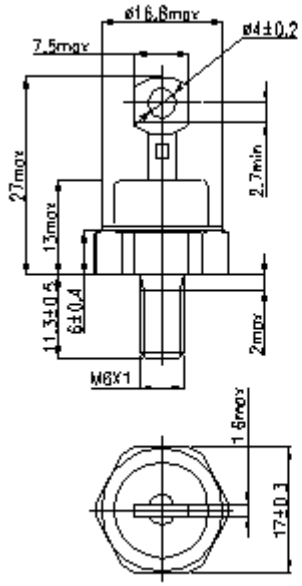
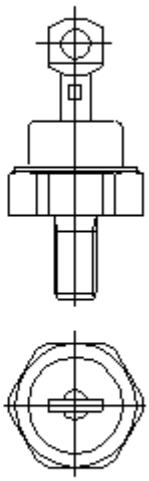
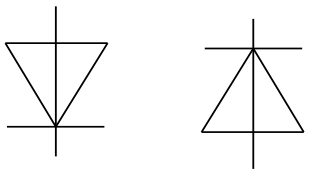


Fig.8







ZP060**ZL06 ZP060**ZL06A