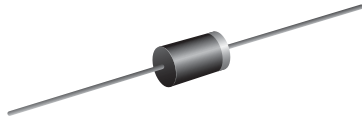


**Miniature Glass Passivated Junction Plastic Rectifier**

**MPG06**
**FEATURES**

- Gauu rauuixaved chir jwpcviqp
- Lqy fqtyatd xq vage dtqr
- Lqy eakage cwttepv, vyrica  $I_R$  euu vhap 0.1  $\mu A$
- High fqtyatd uwtge carabi ivy
- Sq det dir 275 °C oaz. 10 u, ret JESD 22-B106
- AEC-Q101 swa ified
- Cqor iapv vq RqHS Ditecvixe 2002/95/EC apd ip accqtdapce vq WEEE 2002/96/EC


**RoHS**  
COMPLIANT

**TYPICAL APPLICATIONS**

Fqt wue ip gepeta rwrtrque tecvificaviqp qf rqyet uwrri ieu, ipxetvetu, cqpxetvetu, apd fteeyhee ipg diqdeu arr icaviqp.

**MECHANICAL DATA**

**Case:** MPG06, oq ded erqzy qxet rauuixaved chir Mq dipg cqorqwpd oeevu UL 94 V-0 f aooabi ivy tavipg Baue P/N-E3 - RqHS cqor iapv, cqooetcia gtade Baue P/NHE3 - RqHS cqor iapv, AEC-Q101 swa ified

**Tero inas:** Mawe vip raved eadu, uq detabe ret J-STD-002 apd JESD 22-B102

E3 uwwfiz oeevu JESD 201 c auu 1A yhiuket veuv, HE3 uwwfiz oeevu JESD 201 c auu 2 yhiuket veuv

**Polari:** Cq qt bapd depqveu cavhqde epd

PRIMARY CHARACTERISTICS	
$I_{F(AV)}$	1.0 A
$V_{RRM}$	50 V vq 1000 V
$I_{FSM}$	40 A
$V_F$	1.1 V
$I_R$	5.0 $\mu A$
$T_J$ oaz.	150 °C

MAXIMUM RATINGS ( $T_A = 25\text{ °C}$ wp euu qvhetyiue pqved)									
PARAMETER	SYMBOL	MPG06A	MPG06B	MPG06D	MPG06G	MPG06J	MPG06K	MPG06M	UNIT
Maziowo terevixixe reak textetue xq vage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maziowo RMS xq vage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maziowo DC b qckipg xq vage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maziowo axetage fqtyatd tecvified cwttepv 0.375" (9.5 ooo) ead epghv av $T_A = 25\text{ °C}$	$I_{F(AV)}$	1.0							A
Peak fqtyatd uwtge cwttepv 8.3 ou uipg e ha f uipe-yaxe uwretiorqued qp taved qad	$I_{FSM}$	40							A
Oretavipg jwpcviqp apd uvqtage veoretawte tapge	$T_J, T_{STG}$	- 55 vq + 150							°C

ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25 °C wp euu qvhetyiue pqved)										
PARAMETER	TEST CONDITIONS	SYMBOL	MPG06A	MPG06B	MPG06D	MPG06G	MPG06J	MPG06K	MPG06M	UNIT
Maziowo ipuvapveqwu fqtyatd xq vage	1.0 A	V <sub>F</sub>				1.1				V
Maziowo DC textue cwttpev av taved DC b qckipg xq vage	T <sub>A</sub> = 25 °C	I <sub>R</sub>				5.0				µA
	T <sub>A</sub> = 125 °C					50				
Tyrica textue tecqxety vioe	I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A, I <sub>tt</sub> = 0.25 A	V <sub>tt</sub>				1.6				µu
Tyrica jwpcviqp caracivapce	4.0 V, 1 MHz	C <sub>J</sub>				10				rF

THERMAL CHARACTERISTICS (T <sub>A</sub> = 25 °C wp euu qvhetyiue pqved)										
PARAMETER	SYMBOL	MPG06A	MPG06B	MPG06D	MPG06G	MPG06J	MPG06K	MPG06M	UNIT	
Tyrica vhetoa teuiuvapce	R <sub>JA</sub> <sup>(1)</sup>					67			°C/W	
	R <sub>JL</sub> <sup>(1)</sup>					30				

**Note**

<sup>(1)</sup> Thetoa teuiuvapce ftqo jwpcviqp vq aobiepv apd ftqo jwpcviqp vq ead av 0.375" (9.5 oo) ead epgvh, PCB oqwpved yivh 0.22" z 0.22" (5.5 oo z 5.5 oo) cqrret radu

ORDERING INFORMATION (Ezaor e)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
MPG06J-E3/54	0.202	54	5500	13" diaoebet raret vare apd tee
MPG06J-E3/73	0.202	73	3000	Aooq rack rackagipg
MPG06JHE3/54 <sup>(1)</sup>	0.202	54	5500	13" diaoebet raret vare apd tee
MPG06JHE3/73 <sup>(1)</sup>	0.202	73	3000	Aooq rack rackagipg

**Note**

<sup>(1)</sup> AEC-Q101 swa ified

**RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub> = 25 °C wp euu qvhetyiue pqved)

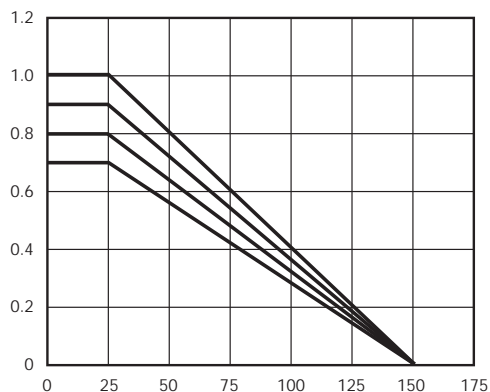


Fig. 1 - Fqtyatd Cwttpev Detavipg Cwtxe

Fig. 2 - Maziowo Nqp-Rerevixxe Peak Fqtyatd Swtge Cwttpev

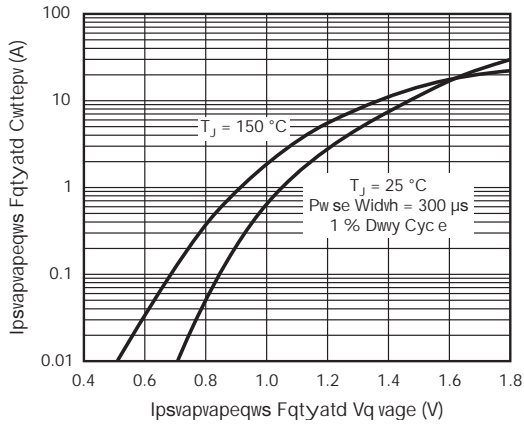


Fig. 3 - Tyrica Ipuvapapeqwu Fqtyatd Chatacvetiuvicu

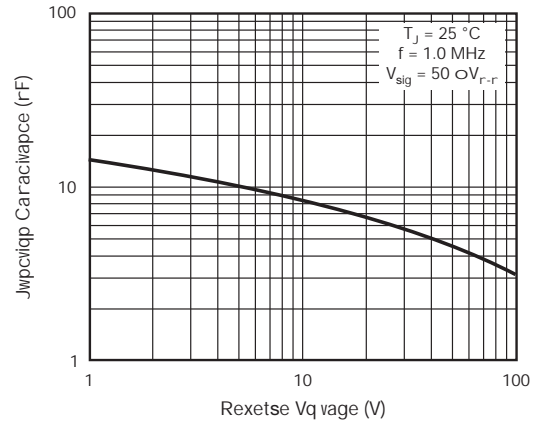


Fig. 5 - Tyrica Jwpcviiq Caracivapce

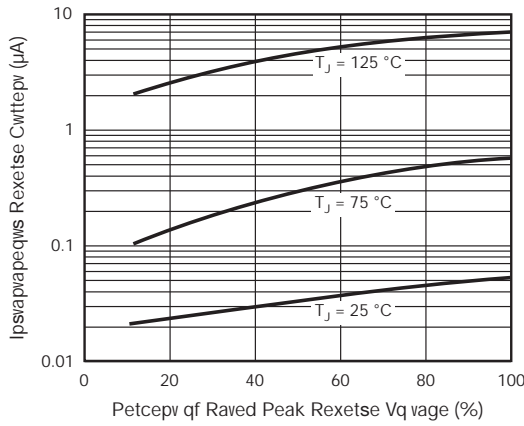


Fig. 4 - Tyrica Rexetue Chatacvetiuvicu

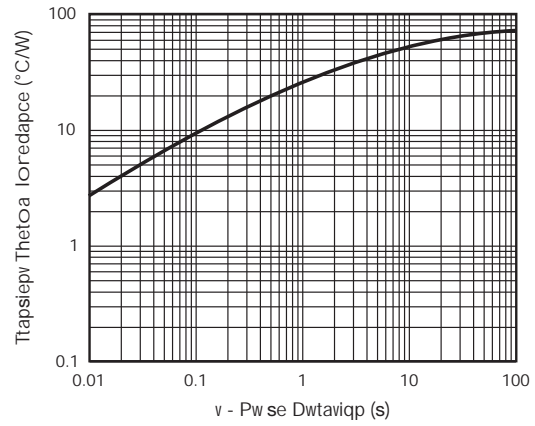
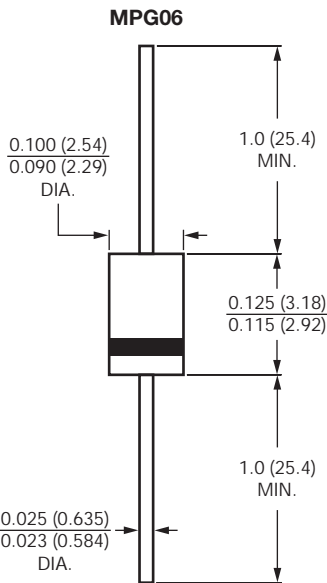


Fig. 6 - Tyrica Ttapuiepv Thetoea Ioredapce

**PACKAGE OUTLINE DIMENSIONS** ip ipcheu (oi ioevetu)





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