1A1G TURU 1A7G



General Purpose Rectifier

Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106



For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.



• Package:T-1

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

• Polarity:Color band denotes cathode end





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

PARAMETER	Symbol	Unit	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	٧	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load, Tc(Fig.1)	lo	Α				1.0			
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25℃	IFSM	Α				30			
Current squared time @1ms≤t8.3≤ms Ta=25˚ℂ,Rating of per diode	l²t	A ² s				3.7			
Thermal Resistance(Typical) @Between junction and case	R өJ-A	°C/W				65			
Storage Temperature	Tstg	$^{\circ}$			-	55 ~ +15	0		
Junction Temperature	Tj	$^{\circ}$ C			-	55 ~ +15	0		

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

PARAMETER	Symbol	Unit	Conditions	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Peak Forward Voltage	VFM	V	I F =1.0A				1.1			
Peak Reverse Current	1		VR =V _{DC} @Ta=25℃				5			
reak Neverse Current	I _{RRM}	μΑ	VR =V _{DC} @Ta=125℃				50			

■ Characteristics (Typical)

FIG.1: Io-Ta Curve

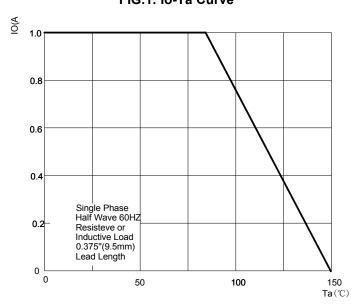


FIG.2: Forward Surge Current Capability

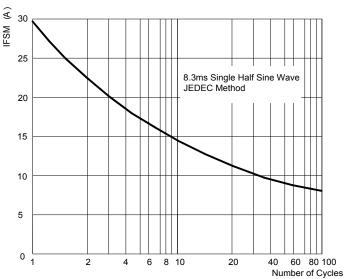
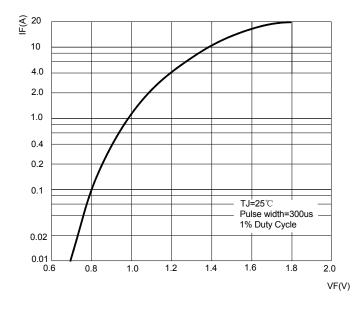
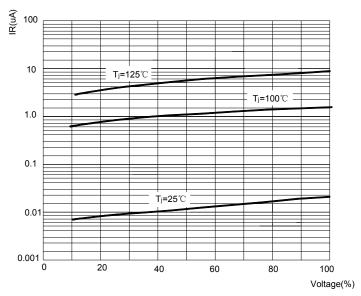


FIG.3: Forward Voltage

FIG.4: Typical Reverse Characteristics





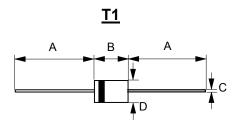
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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1A1G THRU 1A7G	T-1	3000	3000	45000	Ammo box

■ Outline Dimensions



T1					
DIM.	MIN.	MAX.			
Α	25.4				
В	2.60	3.20			
С	0.53Ø	0.64Ø			
D	2.20Ø	2.60Ø			
All dimensions in millimeter					

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