

Thyristor Low Power Use

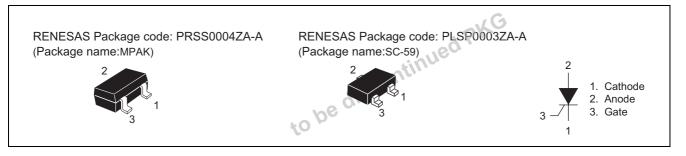
> REJ03G0347-0200 Rev.2.00 Mar 22, 2007

Features

- $I_{T(AV)}: 0.1 A$
- V_{DRM} : 400 V
- I_{GT} : 100 μA

- Non-Insulated Type
- Planar Passivation Type
- Completed Pb free product

Outline



Applications

Strobe flasher

Maximum Ratings

Parameter	Symbol	Voltage class	Unit	
	Symbol	8		
Repetitive peak reverse voltage	V _{RRM}	400	V	
Non-repetitive peak reverse voltage	V _{RSM}	500	V	
DC reverse voltage	V _{R(DC)}	320	V	
Repetitive peak off-state voltage ^{Note1}	V _{DRM}	400	V	
DC off-state voltage ^{Note1}	V _{D(DC)}	320	V	

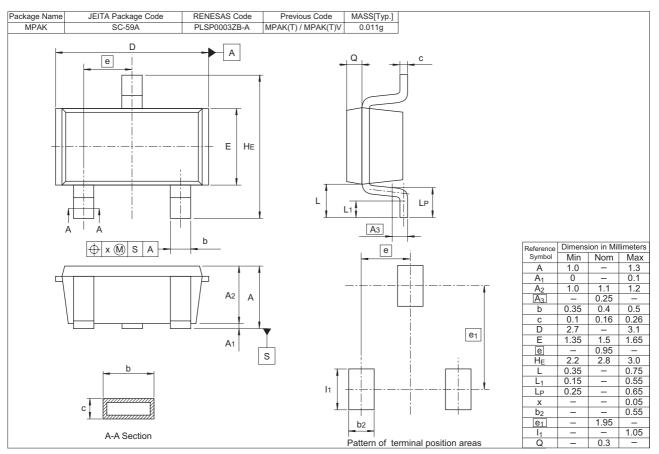
Parameter	Symbol	Ratings	Unit	Conditions
RMS on-state current	I _{T (RMS)}	0.15	A	
Average on-state current	I _{T (AV)}	0.1	A	Commercial frequency, sine half wave 180° conduction, Ta = 55°C
Surge on-state current	I _{TSM}	10	A	60Hz sine half wave 1 full cycle, peak value, non-repetitive
l ² t for fusing	l ² t	0.4	A ² s	Value corresponding to 1 cycle of half wave 60Hz, surge on-state current
Peak gate power dissipation	P _{GM}	0.1	W	
Average gate power dissipation	P _{G (AV)}	0.01	W	
Peak gate forward voltage	V _{FGM}	6	V	
Peak gate reverse voltage	V _{RGM}	6	V	
Peak gate forward current	I _{FGM}	0.1	A	
Junction temperature	Tj	- 40 to +125	°C	
Storage temperature	Tstg	- 40 to +125	°C	
Mass	—	11	mg	Typical value

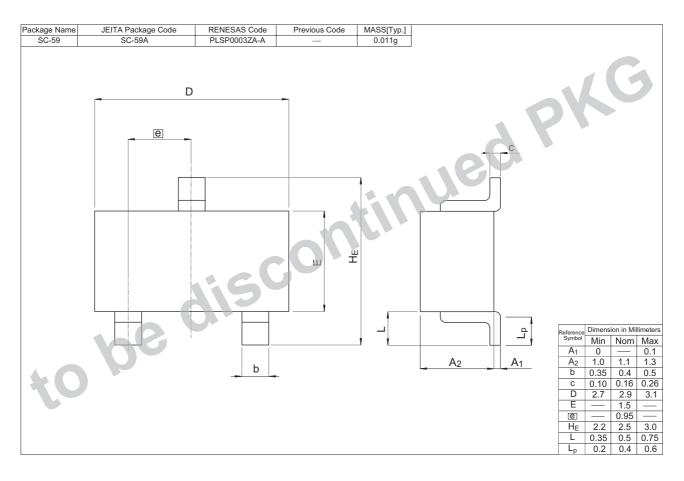
Notes: 1. With gate to cathode resistance $R_{GK} = 1 \ k\Omega$.

Electrical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test conditions
Repetitive peak reverse current	I _{RRM}	—	—	0.1	mA	Tj = 125°C, V _{RRM} applied
Repetitive peak off-state current	I _{DRM}	_	—	0.1	mA	Tj = 125°C, V _{DRM} applied,
						$R_{GK} = 1 k\Omega$
On-state voltage	V _{TM}	—	_	1.9	V	Ta = 25°C, I _{TM} = 1.5 A,
						instantaneous value
Gate trigger voltage	V_{GT}	_	_	0.8	V	$Tj = 25^{\circ}C, V_{D} = 6 V, I_{T} = 0.1 A$
Gate non-trigger voltage	V_{GD}	0.2	_		V	$Tj = 125^{\circ}C, V_D = 1/2 V_{DRM},$
						$R_{GK} = 1 \ k\Omega$
Gate trigger current	I _{GT}	20	—	100	μΑ	$Tj = 25^{\circ}C, V_{D} = 6 V, I_{T} = 0.1 A$
Holding current	I _H	_	_	3.0	mA	$Tj = 25^{\circ}C, V_{D} = 12 V,$
						$R_{GK} = 1 \ k\Omega$
Thermal resistance	R _{th (j-a)}			500	°C/W	Junction to ambient

Package Dimensions





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Order Code

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Surface-mounted type	Taping	3000	Type name – ET +Direction (1 or 2) +3	CR05BS-8-ET13

Note : Please confirm the specification about the shipping in detail.

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