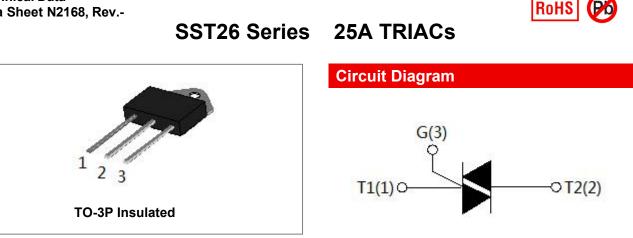


SST26Z-800BW SST26Z-800CW

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Description

With high ability to withstand the shock loading of large current, SST26Z provide high dv/dt rate with strong resistance to electromagnetic interface. With high commutation performances, 3 quadrants products especially recommended for use on inductive load.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Storage junction temperature range	TJ	-	-40 to +125	°C
Operating junction temperature range	T _{stg}	-	-40 to +150	°C
Repetitive peak off-state voltage	V _{DRM}	-	800	V
Repetitive peak reverse voltage	V _{RRM}	-	800	V
Non repetitive peak off-state voltage	V _{DSM}	-	V _{DRM} +100	V
Non repetitive peak reverse voltage	V _{RSM}	-	V _{RRM} +100	V
RMS on-state current	I _(TRMS)	TO-3P(Ins)(T _c =100℃)	25	A
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I _{TSM}	-	250	A
I ² t value for fusing (tp=10ms)	l²t	-	340	A ² s
Critical rate of rise of on-state current $(I_G = 2 \times I_{GT})$	dl/dt	-	50	A/µs
Peak gate current	I _{GM}	-	4	A
Average gate power dissipation	Р _{бм}	-	1	W
Peak gate power	P _{G(AV)}	-	10	W

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Electrical Characteristics(Tj=25 °C unless otherwise specified)

Symbol	Test Condition	Quadrant		Value		Unit	
Symbol	Test condition	Quadrant		BW	CW	onn	
I _{GT}	- V _D =12V R _I =33Ω	I - II -III	MAX	50	35	mA	
V _{GT}	$- v_{\rm D} - 12v R_{\rm L} - 33\Omega$	I - II -III	MAX	1.	.3	V	
V _{GD}	V _D =V _{DRM} T _j =125°C R _L =3.3KΩ	I - II -III	MIN	0.2		V	
		I -III		80	70		
l IL	$I_G = 1.2I_{GT}$	II	MAX	100	80	mA	
Iн	I _T =100mA		MAX	75	50	mA	
dV/dt	V _D =2/3V _{DRM} Gate Open T _j =125℃		MIN	1000	500	V/µs	

Static Characteristics

Symbol	Condition	Max.	Units
V _{TM}	I _T =35A tp=380µs,Tj=25℃	1.5	V
I _{DRM}	V _D =V _{DRM} V _R =V _{RRM} , Tj=25℃	5	μA
I _{RRM}	V _D =V _{DRM} V _R =V _{RRM} , Tj=125℃	3	mA

Thermal Resistances

Symbol	Condition		Value	Units
Rth(j-c)	Junction to case(AC) TO-3P(Ins)		1.0	°C/W

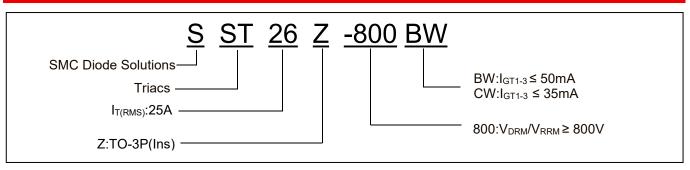


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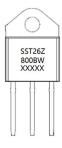


Ordering Information



Device	Package	Shipping	
SST26 Series	TO-3P	30pcs/ Tube	

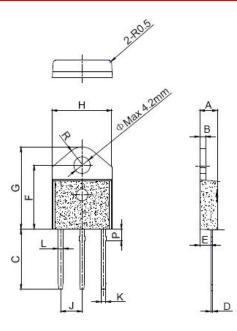
Marking Diagram



Where XXXXX is YYWWL

SST26Z-800BW	= Part name
YY	= Year
WW	= Week
L	= Lot Number

Mechanical Dimensions TO-3P



SYMBOL	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	4.40		4.60	0.173		0.181
В	1.45		1.55	0.057		0.061
С	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
E	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
н	15.10		15.50	0.594		0.610
J	5.40		5.65	0.213		0.222
K	1.10		1.40	0.043		0.055
L	1.35		1.50	0.053		0.059
Р	2.80		3.00	0.110		0.118
R		4.35			0.171	

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α=180°

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Ratings and Characteristics Curves

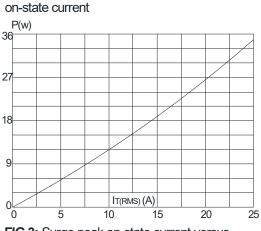


FIG.1: Maximum power dissipation versus RMS



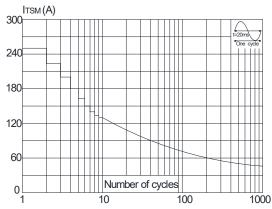
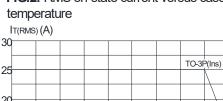
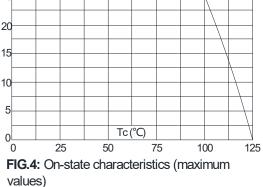


FIG.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp<20ms, and corresponging value of $l^{2}t$ (dl/dt < 50A/µs)

ITSM (A), ft (Å's) 4000 1000 dl/dt/ 1000 1000 0.01 0.1 1 10 20





ITM (A)

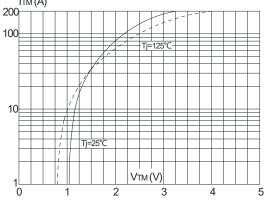
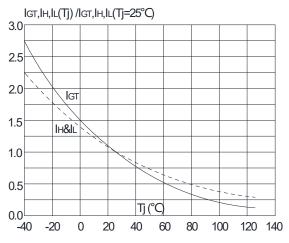


FIG.6: Relative variations of gate trigger current, holding current and latching current versus junction temperature

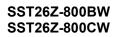


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FIG.2: RMS on-state current versus case



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