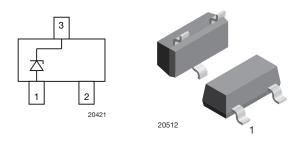


Single-Line ESD Protection in SOT-23



FEATURES

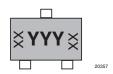
- Single-line ESD-protection device
- ESD-protection acc. IEC 61000-4-2
 ± 30 kV contact discharge
 - ± 30 kV air discharge
- Space saving SOT-23 package
- AEC-Q101 qualified
- e3 Sn
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912





COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

MARKING (example only)



YYY = type code (see table below)

XX = date code

ORDERIN	ORDERING INFORMATION							
	ENVIR	ONMENTAL AN	D QUALITY CO	ODE	PACKAG	ING CODE		
PART NUMBER (EXAMPLE)	AEC-Q101	RoHS-CON LEAD (P		TIN	3K PER 7" REEL (8 mm TAPE),	10K PER 13" REEL (8 mm TAPE),	ORDERING CODE (EXAMPLE)	
(=/0 ==)	QUALIFIED	STANDARD	GREEN	PLATED	15K/BOX = MOQ	10K/BOX = MOQ		
GSOT05-		E		3	-08		GSOT05-E3-08	
GSOT05-			G	3	-08		GSOT05-G3-08	
GSOT05-	Н	E		3	-08		GSOT05-HE3-08	
GSOT05-	Н		G	3	-08		GSOT05-HG3-08	
GSOT05-		E		3		-18	GSOT05-E3-18	
GSOT05-			G	3		-18	GSOT05-G3-18	
GSOT05-	Н	E		3		-18	GSOT05-HE3-18	
GSOT05-	Н		G	3		-18	GSOT05-HG3-18	



PACKA	GE DATA						
DEVICE NAME	PACKAGE NAME	TYPE CODE	ENVIRONMENTAL STATUS	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
GSOT03	SOT-23	03	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G50105	301-23	03G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 O/ TO 3 at terrilliais
GSOT04	SOT-23	04	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G50104	301-23	04G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 O/10 3 at terrilliais
GSOT05	SOT-23	05	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G30103	301-23	05G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 O/10 S at terrillials
GSOT08	SOT-23	08	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G30108	301-23	08G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 O/10 S at terrillials
GSOT12	SOT-23	12	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G30112	301-23	12G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 C/10 S at terrilliais
GSOT15	SOT-23	15	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
GSOTIS	301-23	15G	Green	8.1 mg	OL 94 V-0	(according J-STD-020)	200 C/10 S at terrilliais
GSOT24	SOT-23	24	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
G3O124	301-23	24G	Green	8.1 mg	OL 34 V-0	(according J-STD-020)	200 O/ TO S at terrillials
ССОТЗЕ	SOT 22	36	Standard	8.8 mg	UL 94 V-0	MSL level 1	260 °C/10 s at terminals
430136	GSOT36 SOT-23		Green	8.1 mg	UL 94 V-U	(according J-STD-020)	200 0/10 S at terminals

ABSOLUTE MAXIMUM RATINGS GSOT03						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	30	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	369	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
LSD illillidility	Air discharge acc. IEC 61000-4-2; 10 pulses	VESD	± 30	kV		
Operating temperature	Junction temperature	T _J	-40 to +125	°C		
Storage temperature		T_{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT04						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	30	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	429	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	± 30	kV		
LSD IIIIIIdility	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
Operating temperature	Junction temperature	TJ	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		



ABSOLUTE MAXIMUM RATINGS GSOT05						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	30	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	480	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
L3D IIIIIIIIIIII	Air discharge acc. IEC 61000-4-2; 10 pulses	VESD	± 30	kV		
Operating temperature	Junction temperature	T _J	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT08						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	18	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	345	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	± 30	kV		
EOD IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Air discharge acc. IEC 61000-4-2; 10 pulses	4-2; 10 pulses ± 30	± 30	kV		
Operating temperature	Junction temperature	T _J	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT12						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	12	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	312	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
LSD infindinty	Air discharge acc. IEC 61000-4-2; 10 pulses	VESD	± 30	kV		
Operating temperature	Junction temperature	T_J	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT15						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	8	А		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	230	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	± 30	kV		
ESD IIIIIIdility	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
Operating temperature	Junction temperature	T _J	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT24						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	5	Α		
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	235	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	\/	± 30	kV		
ESD Illillidility	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	± 30	kV		
Operating temperature	Junction temperature	TJ	-40 to +125	°C		
Storage temperature		T _{STG}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS GSOT36					
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT	
Peak pulse current	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	I _{PPM}	3.5	А	
Peak pulse power	Pin 3 to 1 acc. IEC 61000-4-5, t _p = 8/20 μs; single shot	P _{PP}	248	W	
CCD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	± 30	kV	
ESD immunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	3.5 P 248 ± 30 ± 30 -40 to +125	kV	
Operating temperature	Junction temperature	TJ	-40 to +125	°C	
Storage temperature		T _{STG}	-55 to +150	°C	

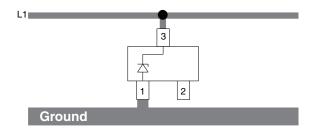
BIAs-MODE (1-line Bidirectional Asymmetrical protection mode)

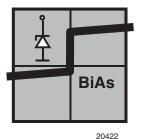
With the GSOTxx one signal- or data-lines (L1) can be protected against voltage transients. With pin 1 connected to ground and pin 3 connected to a signal- or data-line which has to be protected. As long as the voltage level on the data- or signal-line is between 0 V (ground level) and the specified maximum reverse working voltage (V_{RWM}) the protection diode between pin 1 and pin 3 offers a high isolation to the ground line. The protection device behaves like an open switch.

As soon as any positive transient voltage signal exceeds the breakdown voltage level of the protection diode, the diode becomes conductive and shorts the transient current to ground. Now the protection device behaves like a closed switch. The clamping voltage (V_C) is defined by the breakdown voltage (V_{BR}) level plus the voltage drop at the series impedance (resistance and inductance) of the protection diode.

Any negative transient signal will be clamped accordingly. The negative transient current is flowing in the forward direction through the protection diode. The low forward voltage (V_F) clamps the negative transient close to the ground level.

Due to the different clamping levels in forward and reverse direction the GSOTxx clamping behavior is Bidirectional and Asymmetrical (BiAs).





ELECTRICAL CHARACTERISTICS GSOT03 (T_{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1 **PARAMETER SYMBOL** MIN. MAX. UNIT **TEST CONDITIONS/REMARKS** TYP. Protection paths Number of lines which can be protected 1 lines N_{channel} Reverse stand-off voltage at $I_R = 100 \mu A$ 3.3 ٧ V_{RWM} Reverse current at $V_R = 3.3 \text{ V}$ 100 μΑ I_R 4 4.6 ٧ Reverse breakdown voltage at $I_R = 1 \text{ mA}$ V_{BR} ٧ at $I_{PP} = 1 A$ 5.7 7.5 Reverse clamping voltage V_C at $I_{PP} = I_{PPM} = 30 A$ 10 12.3 ٧ at $I_{PP} = 1 A$ 1 1.2 V Forward clamping voltage V_{F} ٧ at $I_{PP} = I_{PPM} = 30 \text{ A}$ 4.5 _ at $V_R = 0 V$; f = 1 MHz420 600 pF Capacitance C_D at $V_R = 1.6 \text{ V}$; f = 1 MHz260 рF



ELECTRICAL CHARACTERISTICS GSOT04 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines	
Reverse stand-off voltage	at I _R = 20 μA	V_{RWM}	-	-	4	V	
Reverse current	at V _R = 4 V	I _R	-	-	20	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	5	6.1	-	V	
Reverse clamping voltage	at I _{PP} = 1 A	V _C	-	7.5	9	V	
neverse ciamping voltage	at I _{PP} = I _{PPM} = 30 A	VC	-	11.2	14.3	V	
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V	
Forward clamping voltage	at I _{PP} = I _{PPM} = 30 A	VF	-	4.5	-	V	
Capacitance	at $V_R = 0 V$; $f = 1 MHz$	- C _D	-	310	450	pF	
Оараспансе	at V _R = 2 V; f = 1 MHz	OD	-	200	-	pF	

ELECTRICAL CHARACTERISTICS GSOT05 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	1	-	1	lines	
Reverse stand-off voltage	at I _R = 10 μA	V_{RWM}	-	-	5	V	
Reverse current	at V _R = 5 V	I _R	-	-	10	μA	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	6	6.8	-	V	
Reverse clamping voltage	at I _{PP} = 1 A	M	-	7	8.7	V	
neverse clamping voltage	at I _{PP} = I _{PPM} = 30 A	V _C	-	12	16	V	
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V	
Forward clamping voltage	at I _{PP} = I _{PPM} = 30 A	VF	-	4.5	-	V	
Canacitanas	at V _R = 0 V; f = 1 MHz		-	260	350	pF	
Capacitance	at V _R = 2.5 V; f = 1 MHz	- C _D	-	150	-	pF	

ELECTRICAL CHARACTERISTICS GSOT08 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines
Reverse stand-off voltage	at I _R = 5 μA	V_{RWM}	-	-	8	V
Reverse current	at V _R = 8 V	I _R	-	-	5	μA
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	9	10	-	V
Reverse clamping voltage	at I _{PP} = 1 A	- V _C	-	10.7	13	V
	at I _{PP} = I _{PPM} = 18 A		-	15.2	19.2	V
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V
	at I _{PP} = I _{PPM} = 18 A		-	3	-	V
Capacitance	at V _R = 0 V; f = 1 MHz	- C _D	-	160	250	pF
	at V _R = 4 V; f = 1 MHz		-	80	-	pF



ELECTRICAL CHARACTERISTICS GSOT12 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines
Reverse stand-off voltage	at I _R = 1 μA	V_{RWM}	-	-	12	V
Reverse current	at V _R = 12 V	I _R	-	-	1	μA
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	13.5	15	-	V
Reverse clamping voltage	at I _{PP} = 1 A	- V _C	-	15.4	18.7	V
	at I _{PP} = I _{PPM} = 12 A		-	21.2	26	V
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V
	at I _{PP} = I _{PPM} = 12 A		-	2.2	-	V
Capacitance	at V _R = 0 V; f = 1 MHz	- C _D	-	115	150	pF
	at V _R = 6 V; f = 1 MHz		-	50	-	pF

ELECTRICAL CHARACTERISTICS GSOT15 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines
Reverse stand-off voltage	at I _R = 1 μA	V_{RWM}	-	-	15	V
Reverse current	at V _R = 15 V	I _R	-	-	1	μΑ
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	16.5	18	-	V
Reverse clamping voltage	at I _{PP} = 1 A	- V _C	-	19.4	23.5	V
	at $I_{PP} = I_{PPM} = 8 A$		-	24.8	28.8	V
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V
	at $I_{PP} = I_{PPM} = 8 A$		-	1.8	-	V
Capacitance	at V _R = 0 V; f = 1 MHz	- C _D	-	90	120	pF
	at V _R = 7.5 V; f = 1 MHz		-	35	-	pF

ELECTRICAL CHARACTERISTICS GSOT24 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines
Reverse stand-off voltage	at I _R = 1 μA	V_{RWM}	-	-	24	V
Reverse current	at V _R = 24 V	I _R	-	-	1	μA
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	27	30	-	V
Reverse clamping voltage	at I _{PP} = 1 A	- V _C	-	34	41	V
	at I _{PP} = I _{PPM} = 5 A		-	41	47	V
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V
	at I _{PP} = I _{PPM} = 5 A		-	1.4	-	V
Capacitance	at V _R = 0 V; f = 1 MHz	- C _D	-	65	80	pF
	at V _R = 12 V; f = 1 MHz		-	20	-	pF



ELECTRICAL CHARACTERISTICS GSOT36 (T _{amb} = 25 °C unless otherwise specified) between pin 3 and pin 1						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	1	lines
Reverse stand-off voltage	at I _R = 1 μA	V_{RWM}	-	-	36	V
Reverse current	at V _R = 36 V	I _R	-	-	1	μΑ
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	39	43	-	V
Reverse clamping voltage	at I _{PP} = 1 A	V _C	-	49	60	V
	at I _{PP} = I _{PPM} = 3.5 A		-	59	71	V
Forward clamping voltage	at I _{PP} = 1 A	V _F	-	1	1.2	V
	at I _{PP} = I _{PPM} = 3.5 A		-	1.3	-	V
Capacitance	at V _R = 0 V; f = 1 MHz	- C _D	-	52	65	pF
	at V _R = 18 V; f = 1 MHz		-	12	-	pF

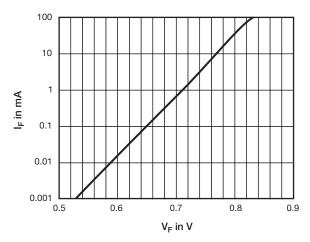


Fig. 1 - Typical Forward Current I_F vs. Forward Voltage V_F

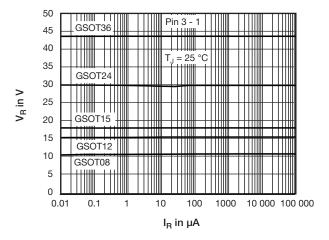


Fig. 2 - Typical Reverse Voltage $V_{\mbox{\scriptsize R}}$ vs. Reverse Current $I_{\mbox{\scriptsize R}}$

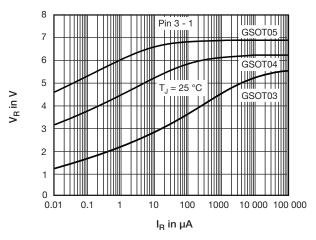
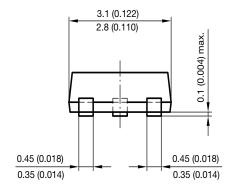
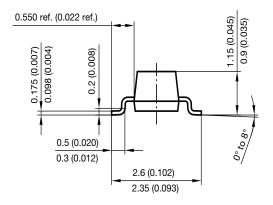
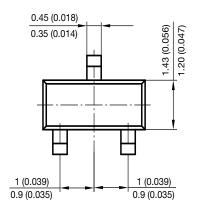


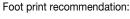
Fig. 3 - Typical Reverse Voltage V_{R} vs. Reverse Current I_{R}

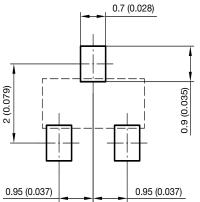
PACKAGE DIMENSIONS in millimeters (inches): SOT-23





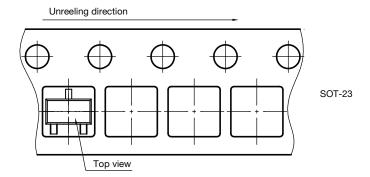






Document no.: 6.541-5014.01-4 Rev. 8 - Date: 23.Sept.2009

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Orientation in carrier tape SOT-23 S8-V-3929.01-006 (4) 04.02.2010 22607



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Revision: 02-Oct-12 Document Number: 91000

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GSOT03-GS08 GSOT03-GS18 GSOT04-GS08 GSOT04-GS18 GSOT05-GS08 GSOT05-GS18 GSOT08-GS08 GSOT08-GS18 GSOT08-GS08 GSOT08-GS18 GSOT08-GS18 GSOT12-GS18 GSOT12-GS18 GSOT15-GS18 GSOT04-GS18 GSOT24-GS18 GSOT36-GS08 GSOT36-GS18 GSOT12-GS18 GSOT24-E3-08 GSOT03-E3-08 GSOT03-HE3-08 GSOT04-HE3-18 GSOT36-HE3-18 GSOT04-G3-18 GSOT05-HG3-18 GSOT04-HG3-08 GSOT08-E3-08 GSOT03-HG3-18 GSOT08-HG3-08 GSOT04-E3-08 GSOT04-HE3-18 GSOT05-G3-18 GSOT03-E3-18 GSOT36-HG3-18 GSOT36-HG3-18 GSOT36-HG3-18 GSOT36-HG3-18 GSOT36-G3-08 GSOT24-HE3-18 GSOT15-G3-08 GSOT12-E3-08 GSOT03-G3-08 GSOT15-HG3-18 GSOT12-HE3-18 GSOT36-E3-18 GSOT04-G3-08 GSOT24-E3-18 GSOT36-HG3-18 GSOT36-E3-18 GSOT36-E3-18 GSOT36-HG3-08 GSOT36-HG3-18 GSOT36-HG3-18