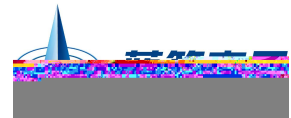


G	2018-3				
H	2020-6-18	1			
A	2022-4-23	all	BR/Q AEC-Q101 , H Q 245±5 5±0.5sec 255±5 5± 0.5sec		
B	2022-7-18	2	TJ -40		

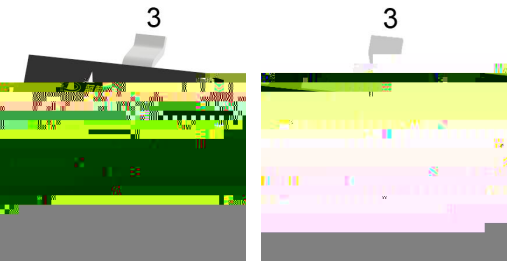
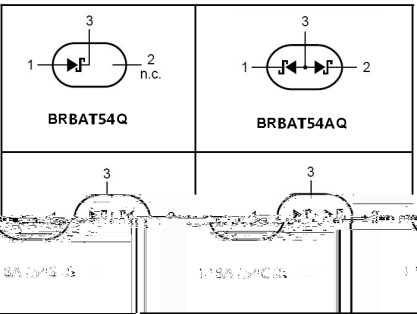


Rev.B Jul.-2022

SOT-23 Schottky diodes in a SOT-23 Plastic Package.

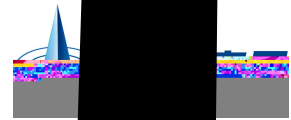
AEC-Q101
Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Low forward and reverse recovery times, Meet the stringent requirements of automotive applications.



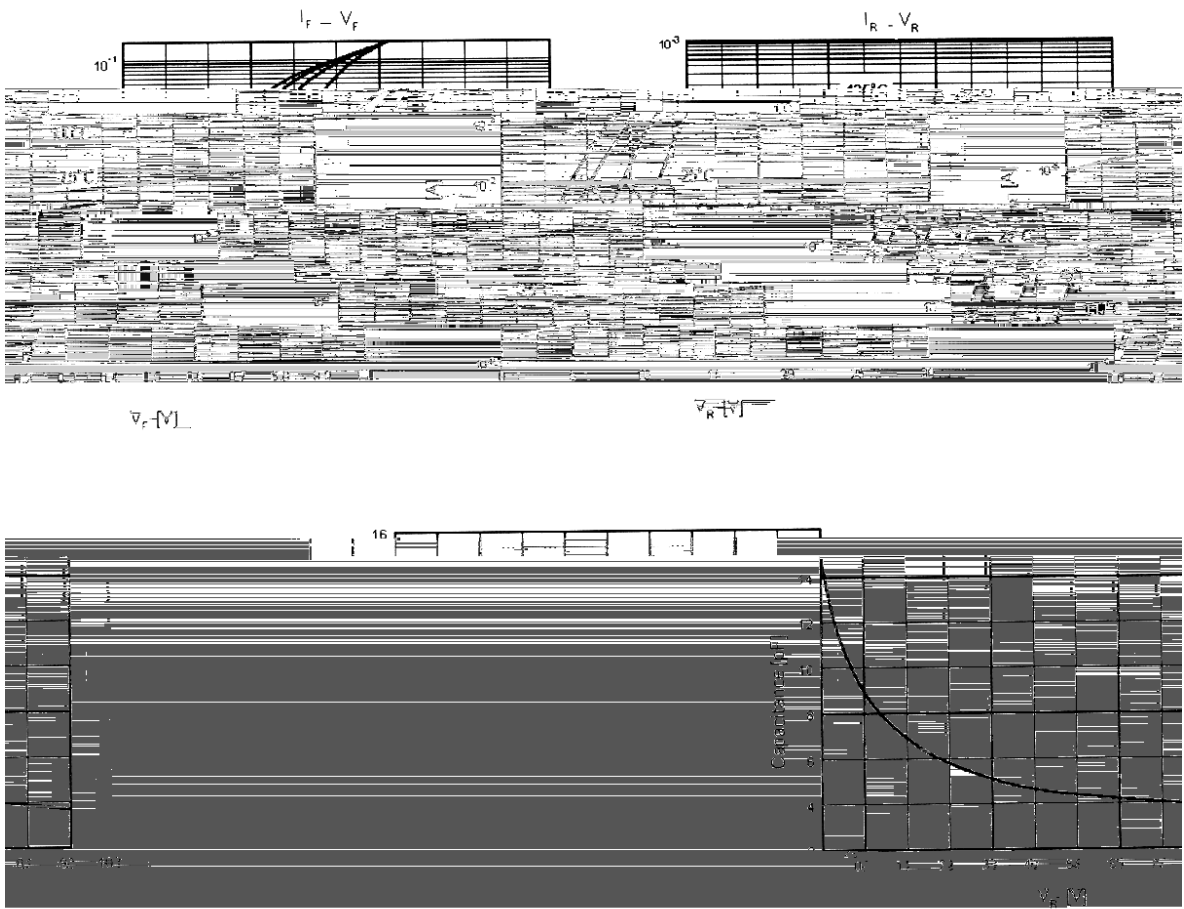
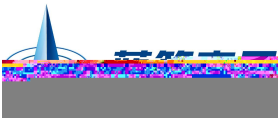
PIN: See Equivalent Circuit.

Model	BRBAT54Q	BRBAT54AQ	BRBAT54CQ	BRBAT54SQ
Marking	QL4P	QL42	QL43	QL44



Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	A
Non-repetitive Peak Forward Surge Current	I_{FSM}	600	A
Power Dissipation	P_D	290	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	430	$^{\circ}C/W$
Junction Temperature	T_J	-40~150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Unit
Breakdown Voltage	V_R	$I_R=10\mu A$	30		V
Forward Voltage	V_F	$I_F=0.1mA$			mV
		$I_F=1mA$			mV
		$I_F=10mA$			mV
		$I_F=30mA$			mV
		$I_F=100mA$			V
Instantaneous Reverse Current	I_R	$V_R=25V$			μA
Total Capacitance	C_T	$V_R=1.0V \quad f=1.0MHz$			pF



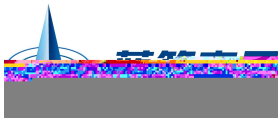
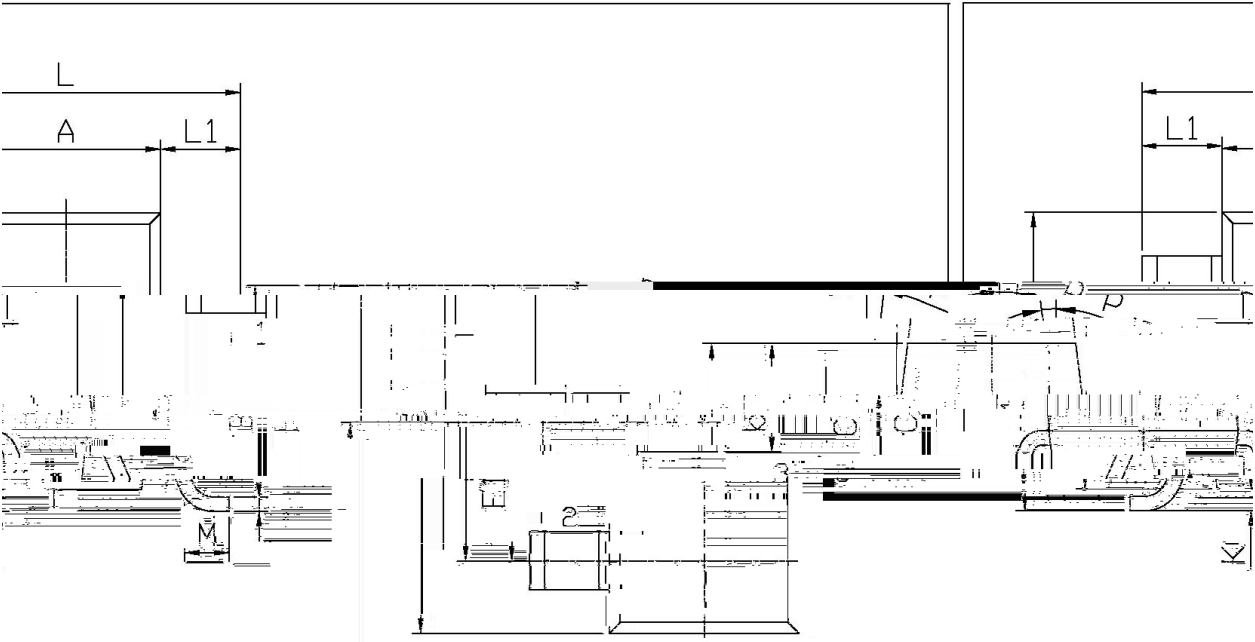
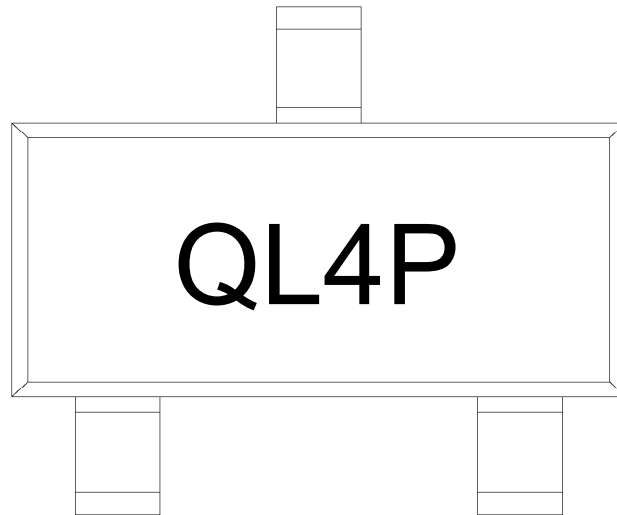
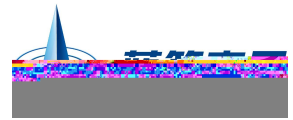


图 1 船体结构图



Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
L	2.2	2.7	C	1.30	Max
A	0.45	0.65	P	0.15	0.50
R	0.70	3.10	K	0.70	0.85
	0.55			0.35	



— °

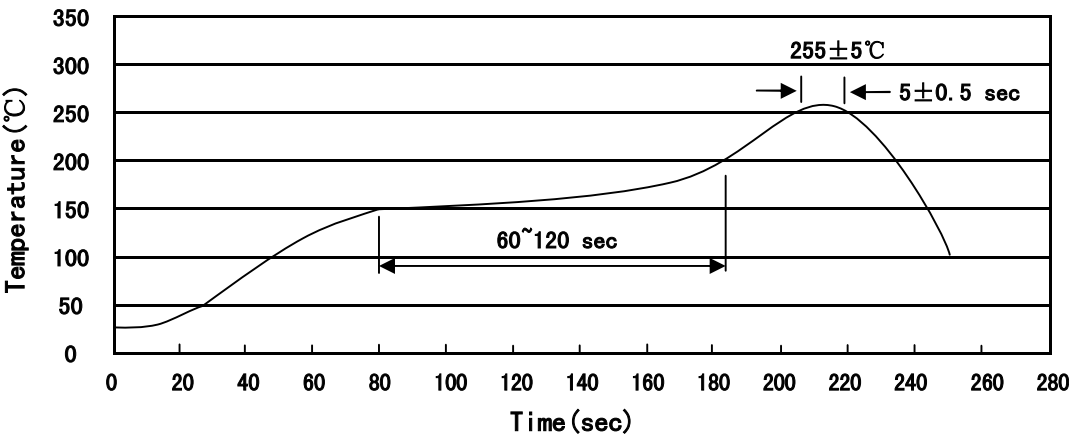
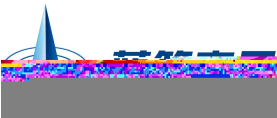
Q ±

L4P 2

Note:

Q: Automobile halogen-free product Code

L4P: Product Type Code



Note:

- 1

150 200

60 120sec;

1.Preheating:150~200°C, Time:60~120sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5°C, Duration:5±0.5sec.
- 3

2 10°C/sec.

3. Cooling Speed: 2~10°C/sec.

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205