

BRM1Q~BRM7Q

Rev.A Nov.-2024



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

83Y£4333Y

413D VPD

Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage 50 to1000V,Forward
Current:1.0A ,SMA package.

UrKV 53442982HX

DHF0T434

Glass Passivated Chip Junction, Lead free in comply with EU RoHS 2011/65ithoEU directives, For
surface mounted applications, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Parameter	Symbol	Rating							Unit
		BRM1Q	BRM2Q	BRM3Q	BRM4Q	BRM5Q	BRM6Q	BRM7Q	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Fig.1									

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

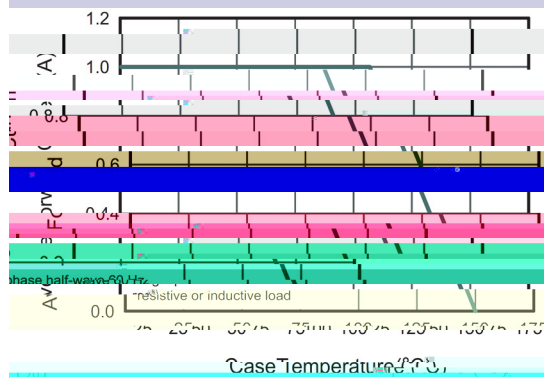


Fig.2 Typical Reverse Characteristics

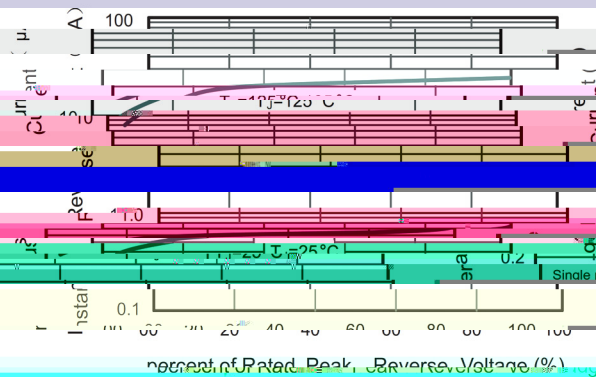


Fig.3 Typical Forward Characteristics

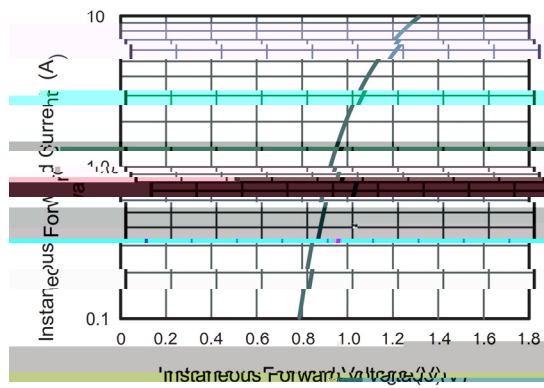


Fig.4 Typical Junction Capacitance

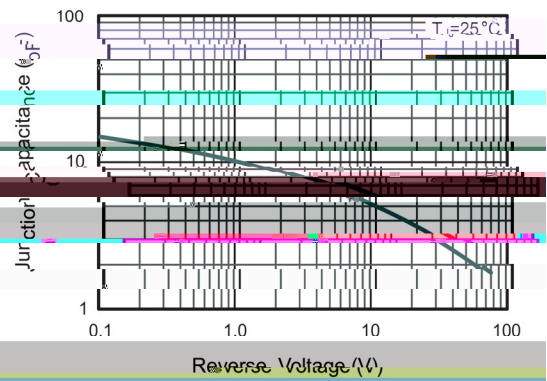
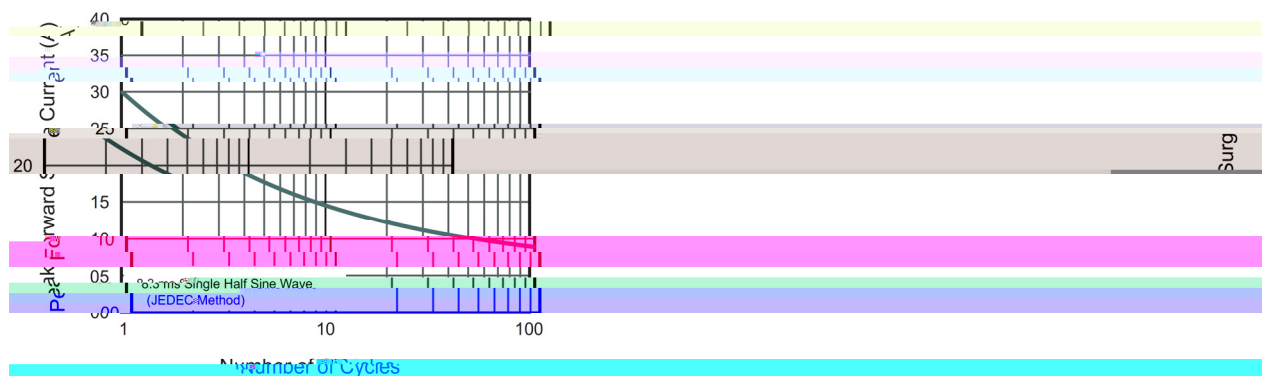
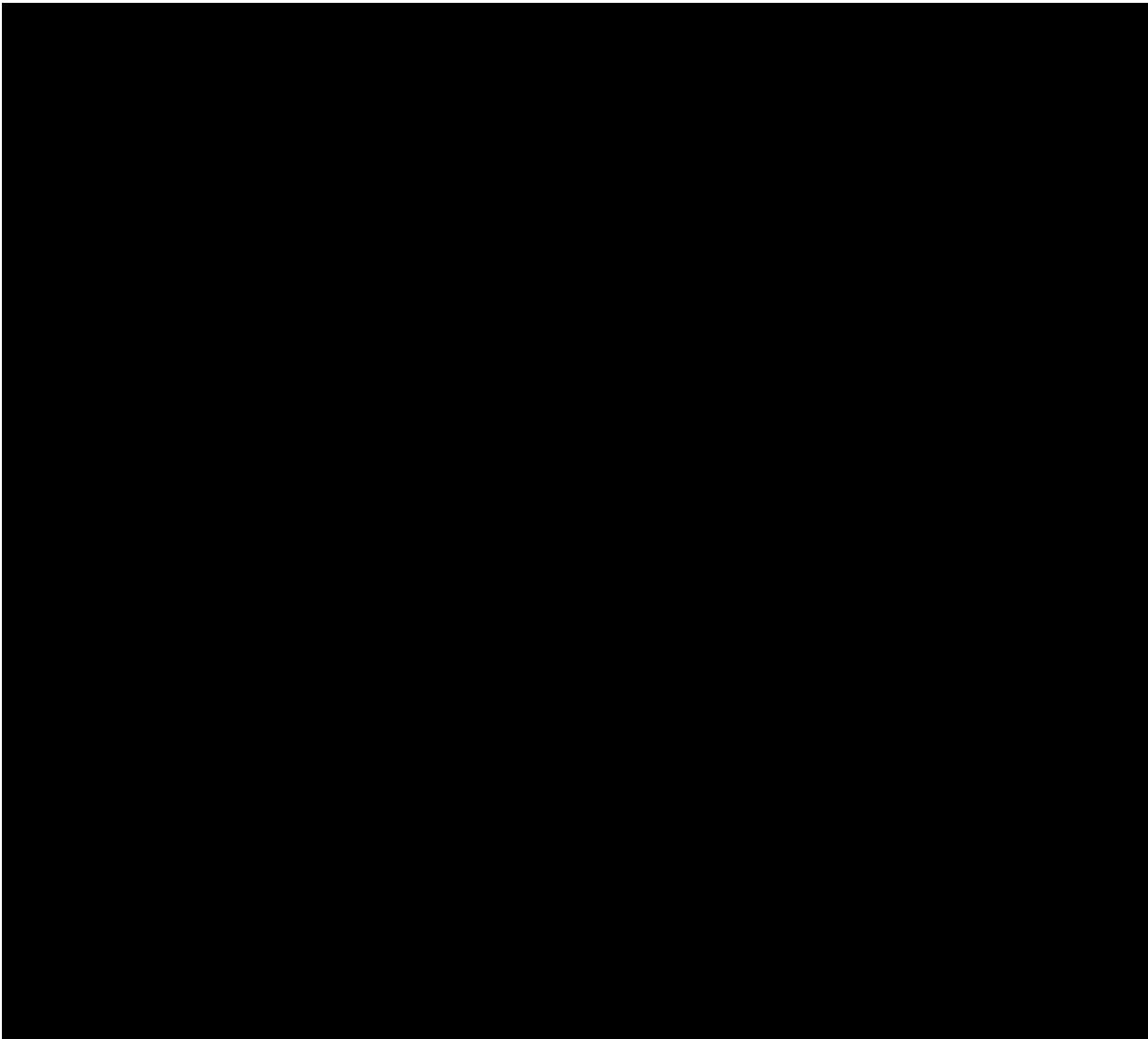


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



/ Package Dimensions



/ Marking Instructions



P :
T

Note:

P : Product Type Code

Q: Automobile halogen-free product Code

**** Lot No. Code, code change with Lot No

Marking

Type number	Marking code
BRM1Q	M1Q
BRM2Q	M2Q
BRM3Q	M3Q
BRM4Q	M4Q
BRM5Q	M5Q
BRM6Q	M6Q
BRM7Q	M7Q

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 200%

60 120sec;

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

255[±]5%

5[±]0.5sec;

2.Peak Temp.:255[±]5%, Duration:5[±]0.5sec.
- 3

2 10%/sec.

3. Cooling Speed: 2~10%/sec.

/ Resistance to Soldering Heat Test Conditions

260[±]5%

10[±]1 sec.

Temp.:260±5

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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