

BRM1Q~BRM7Q

Rev.A Nov.-2024



DATA SHEET

BRM1Q~BRM7Q (Reverse Voltage 50 to 1000V, Forward Current: 1.0A)

Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage 50 to 1000V, Forward Current: 1.0A, SMA package.

Lead free in comply with EU RoHS 2011/65

HF Product

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

BRM1Q~BRM7Q

Rev.A Nov.-2024



DATA SHEET

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

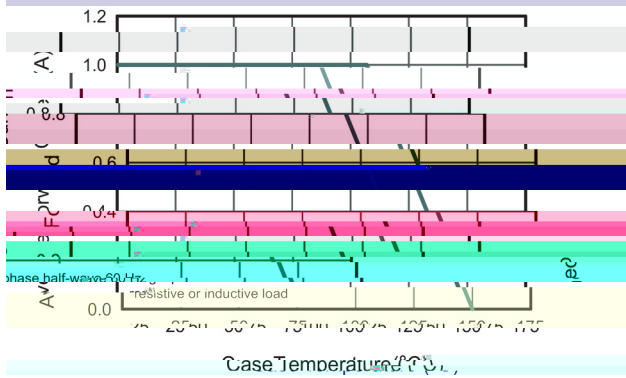


Fig.2 Typical Reverse Characteristics

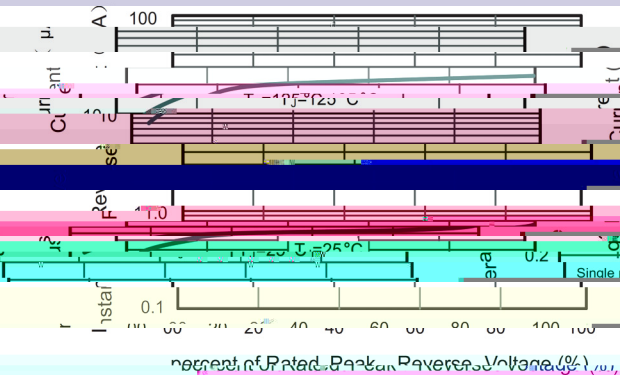


Fig.3 Typical Forward Characteristics

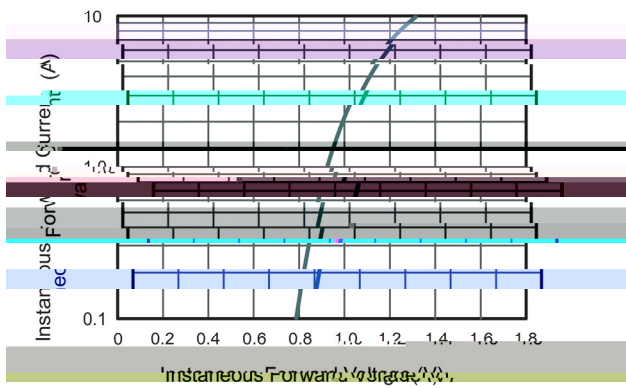


Fig.4 Typical Junction Capacitance

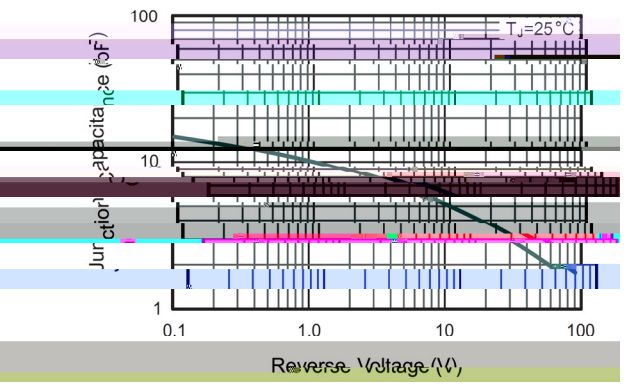
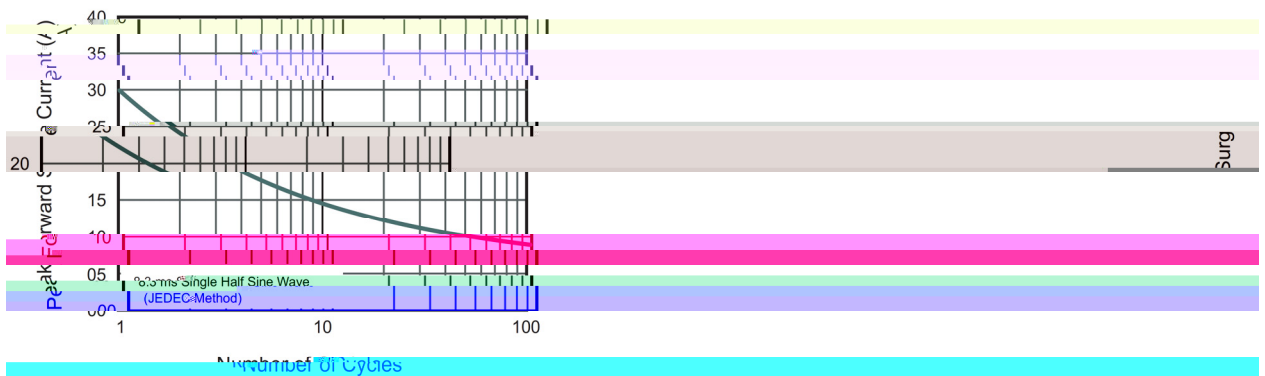
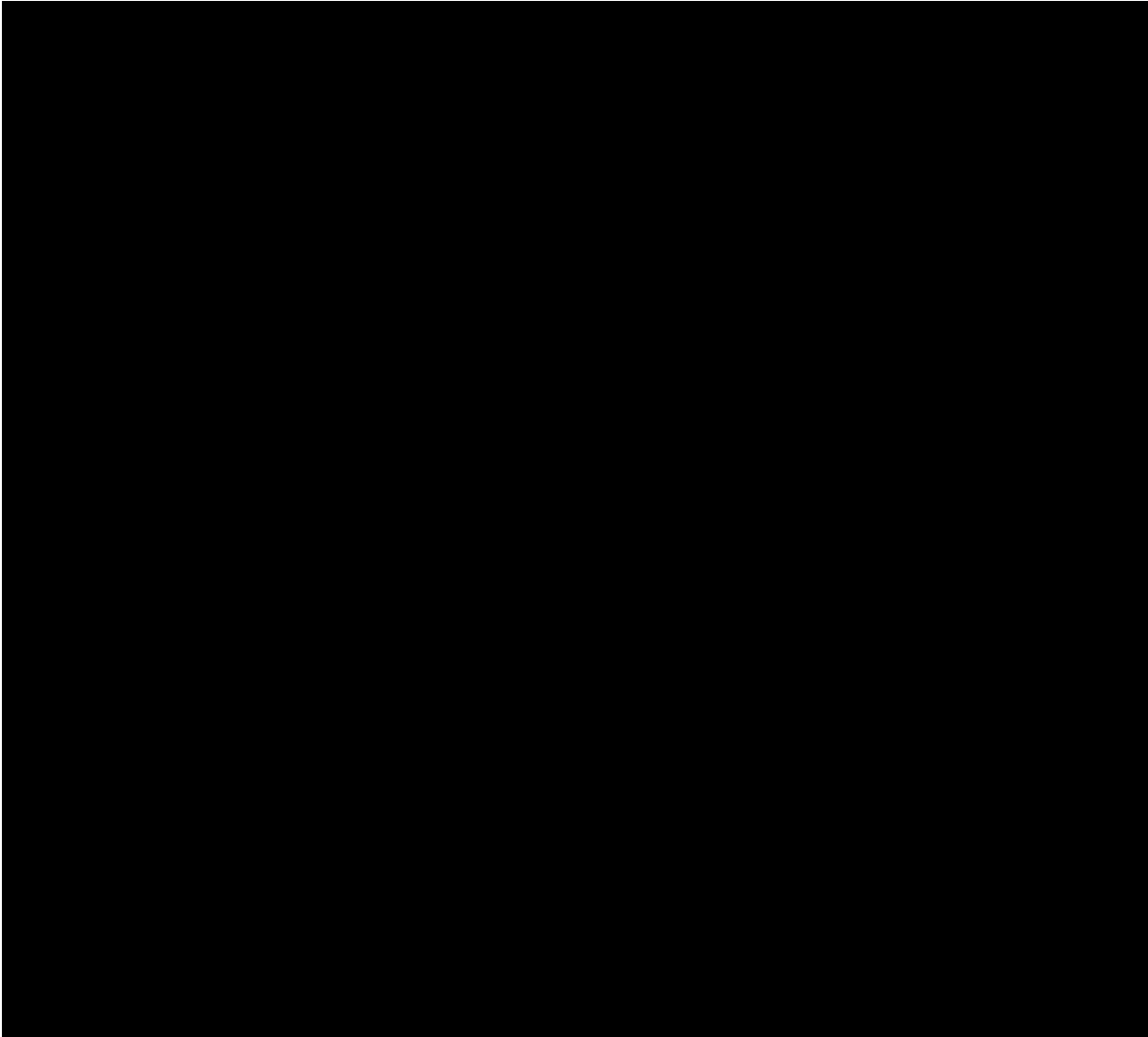


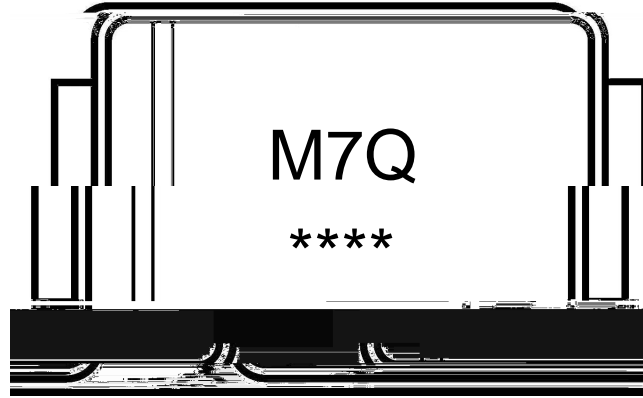
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



/ Package Dimensions



/ Marking Instructions



D .

H

Note:

D . 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)
--------------	-------	-----------	-------------------------