BRM1Q~BRM7Q

Rev.A Nov.-2024

DATA SHEET

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

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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.

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v ˝Ω̣ Parameter	ɣ ᴺ Symbol	˝Ω̣Ӫ Rating							ᴅ Ꞔ 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

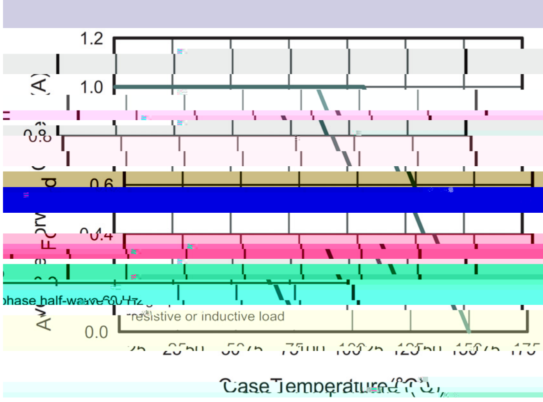


Fig.2 Typical Reverse Characteristics

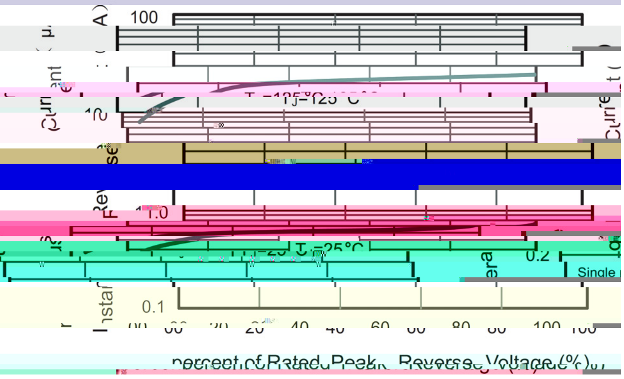


Fig.3 Typical Forward Characteristic

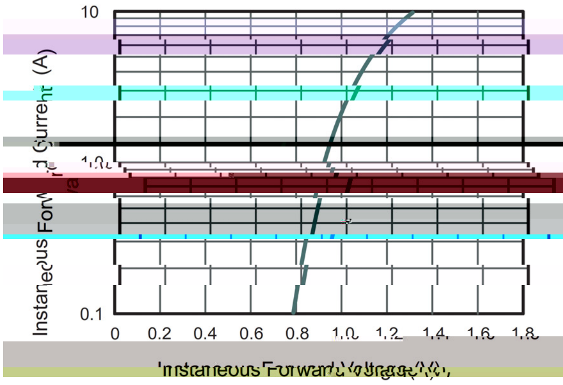


Fig.4 Typical Junction Capacitance

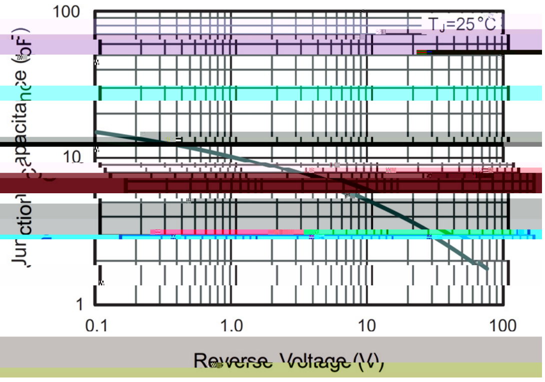
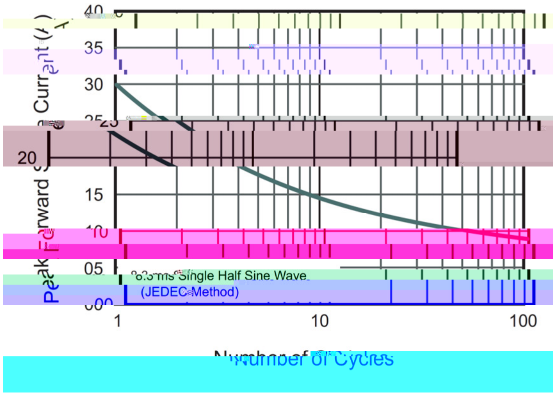
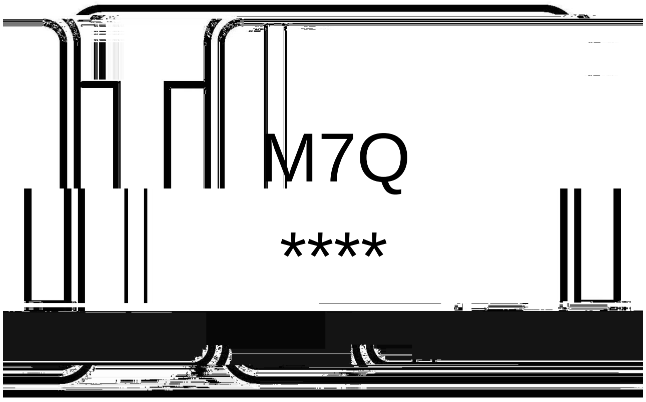


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



/ Package Dimensions

/ Marking Instructions



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Note:

P : χ　Product Type Code

Q:　Automobile halogen-free product Code

**** χ　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)

ب ˝ χ Note:

1 ỉ ♬ □ ŷ 150 Ḱ 200 ƚ ı ῾H ڗ 60 Ḱ 120sec; 1.Preheating:150~200 ƚ , Time:60~120sec.

2 Š Ӫ □ ŷ 255 ° 5 ƚ ı ῾H ڗ ῾Y ꟿ 㗊 5 ° 0.5sec; 2.Peak Temp.:255 ° 5 ƚ , Duration:5 ° 0.5sec.

3 ì ˙ ꓲ ˛ ɔ ᢵ ŷ 㗊 2 Ḱ 10 ƚ /sec. 3. Cooling Speed: 2~10 ƚ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ŷ χ 260 ° 5 ƚ ῾H ڗ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ດ ˋ ɣ Ŀ / REEL

Package Type	Units	Dimension (unit mm^3)