

5 é / Descriptions

9 5: .> // x RK Ô Â 8 â 'ož Schottky barrier diodes in a SOT-23 Plastic Package.

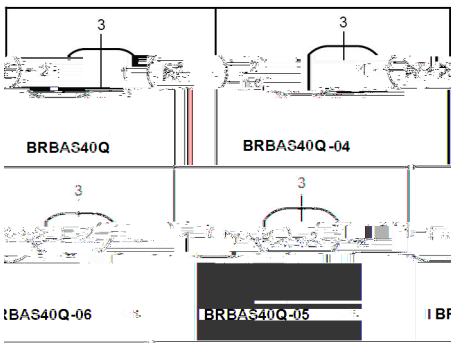
□ª / Features

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Low forward current, Low diode capacitance, small plastic SMD package, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

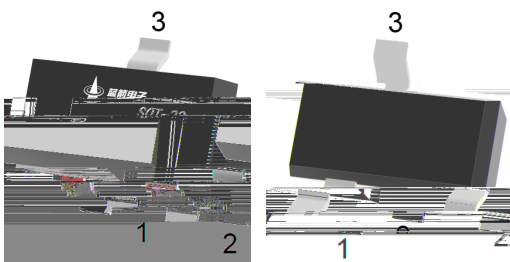
Đ ÷ / Applications

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Ultra high-speed switching, voltage clamping, protection circuits, Meet the stringent requirements of automotive applications.

Ã W ] Ô • / Equivalent Circuit



• Ô - æ / Pinning



PIN: See Equivalent Circuit.

, M V / Marking

Type	BRBAS40Q	BRBAS40Q-04	BRBAS40Q-05	BRBAS40Q-06
Marking	Q43	Q44	Q45	Q46

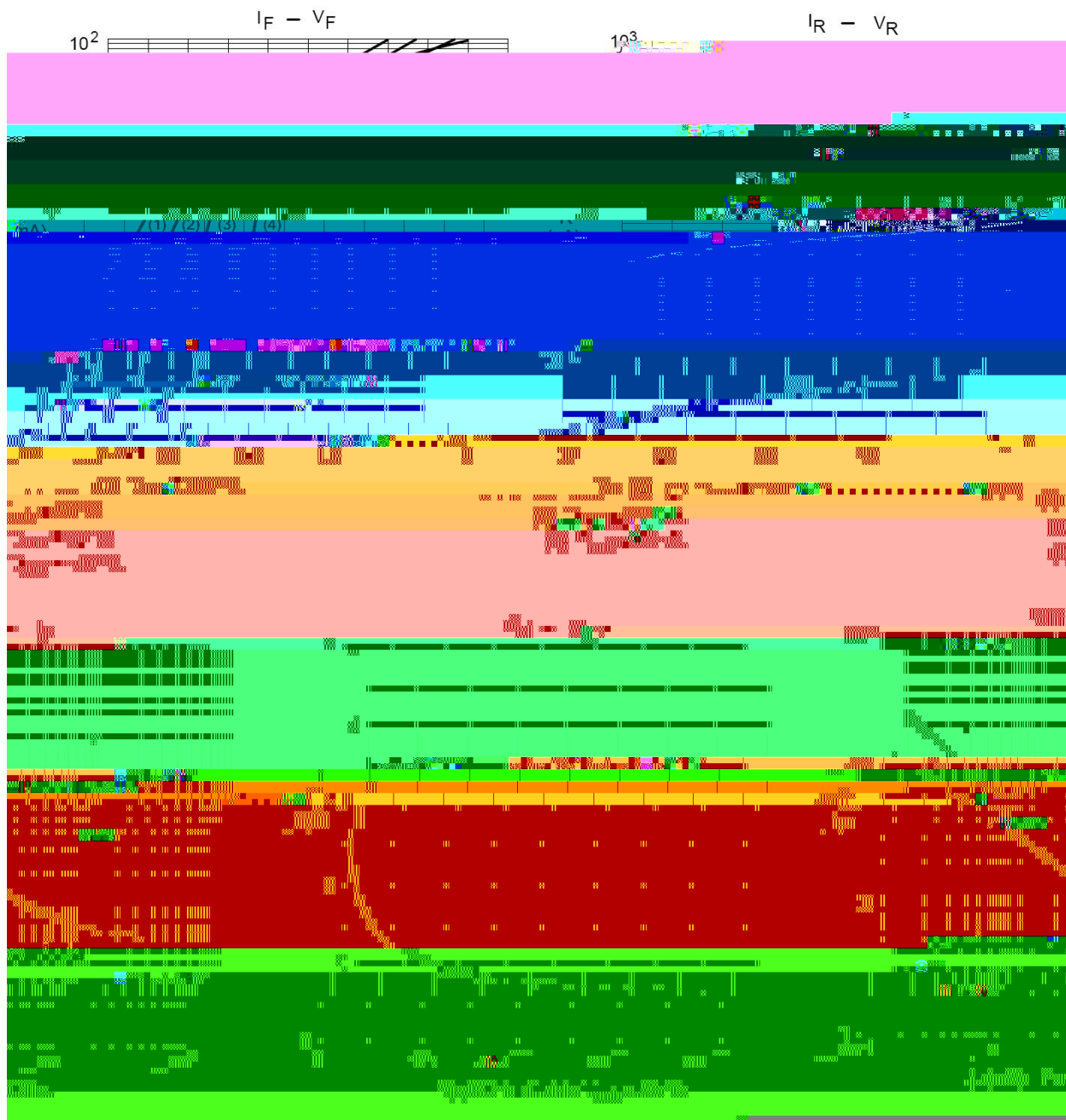
绝对最大额定值 (Ta=25℃ ; )

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	$V_R$	40	V
Average Rectified Forward Current	$I_F$	120	mA
Repetitive Peak Forward Surge Current	$I_{FRM}$ $t_p \leq 10\mu s$	120	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM}$ $t_p < 10ms$	100	mA
Thermal Resistance From Junction to Ambient	$R_{JA}$	500	K/W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 ~ 150	

电学特性 (Ta=25℃ ; )

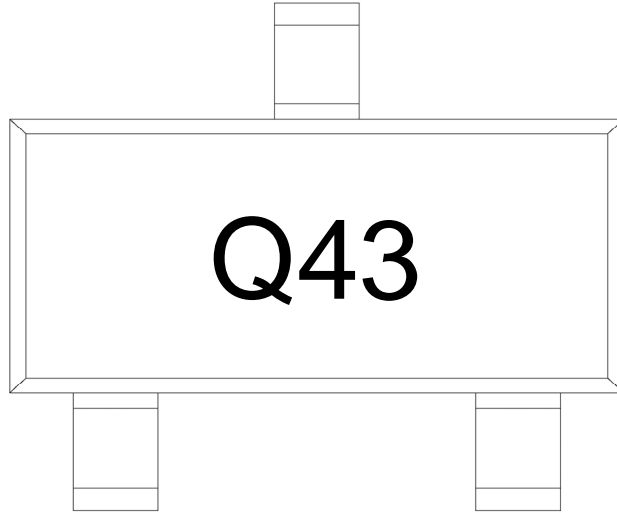
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F=1mA$			380	mV
		$I_F=10mA$			500	mV
		$I_F=40mA$			1.0	V
Instantaneous Reverse Current	$I_R$	$V_R=30V$			1.0	A
		$V_R=40V$			10	A
Diode Capacitance	$C_d$	$V_R=0$ $f=1MHz$			5	pF

Ω ? d • Ž ϕ / Electrical Characteristic Curve





, M y f / Marking Instructions



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Note:

Q: Automobile halogen-free product Code

43: Product Type

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Note:

- 1. Preheating: 150~200 - , Time: 60~120sec.
- 2. Peak Temp.: 255 r5 - , Duration: 5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ » ] / Resistance to Soldering Heat Test Conditions

"† y 260 r5 - ž • y 10 r1 sec. Temp.: 260±5 Time: 10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H		Dimension ;>û p . (unit Åmm³)					
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT-23	3,000	10	30,000	6	180,000	s7x8	180x120x180	390x385x205