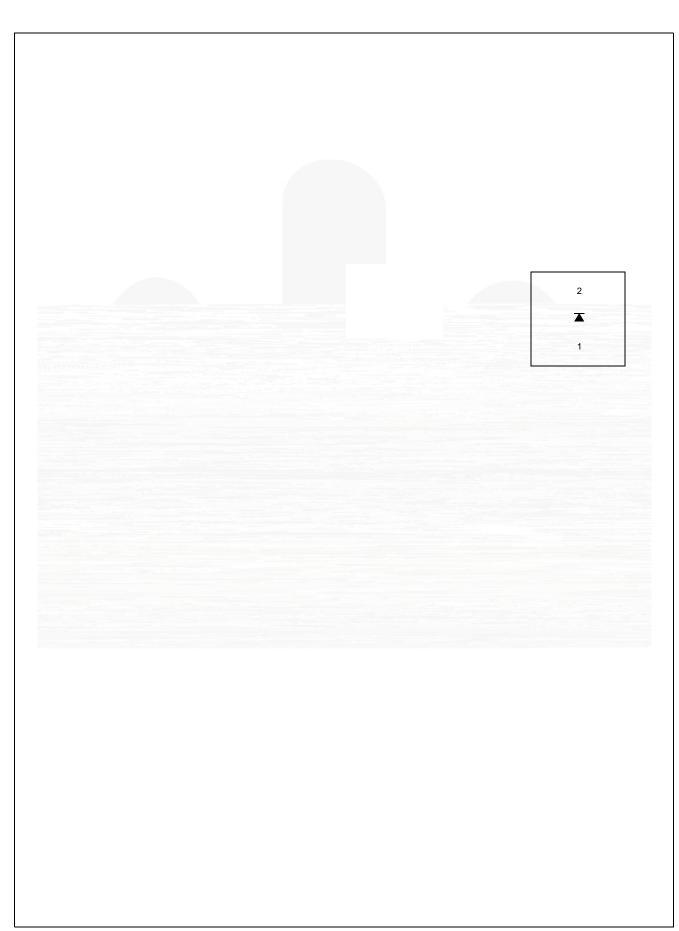


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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.



BAS40SL — Schottky Barrier Diξ (I. reft) i 122-I92 33βS01 r9v623s02¢f68 r9n refBT/TT2 9.30813.2461/2445 16821.1362/26 c25.0173/2021 23.01

Thermal Characteristics

Values are at $T_A = 25$ °C unless otherwise noted.

Symbol	Parameter	Value	Unit
P_{D}	Power Dissipation	227	mW
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient ⁽³⁾	550	°C/W

Note:

3. Minimum land pad.

Electrical Characteristics

Values are at $T_A = 25$ °C unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V_{R}	Breakdown Voltage	I _R = 10 μA	40		V
V _F	Forward Voltage	I _F = 1 mA		380	mV
		I _F = 40 mA		1000	mV
I _R	Reverse Leakage	V _R = 30 V		0.2	μΑ
t _{rr}	Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}, i_{rr} = 0.1I_R$		8.0	nS
СЛ	Junction Capacitance	V _R = 0, f = 1.0 MHz		5.0	pF

TTypical Performance Characteristics

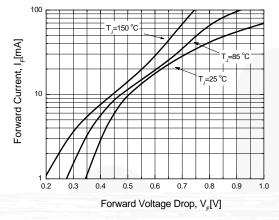


Figure 1. Forward Current Characteristics

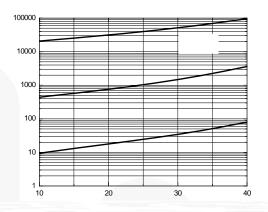
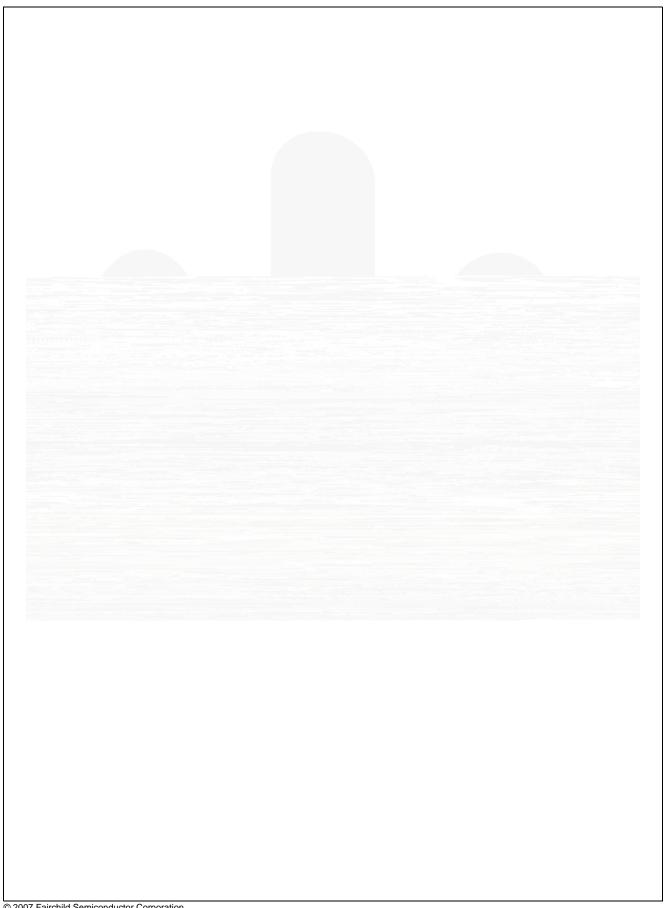


Figure 2. Reverse Leakage Current

Figure 3. Junction Capacitance

Figure 4. Power Derating



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FPS |

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