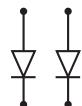


BAS56

SURFACE MOUNT  
DUAL, ISOLATED HIGH CURRENT  
SILICON SWITCHING DIODES



[www.centralsemi.com](http://www.centralsemi.com)



SOT-143 CASE

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

	<b>SYMBOL</b>	<b>UNITS</b>
Continuous Reverse Voltage	$V_R$	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	V
Continuous Forward Current	$I_F$	mA
Peak Repetitive Forward Current	$I_{FRM}$	mA
Peak Forward Surge Current, $t_p=1.0\mu\text{s}$	$I_{FSM}$	A
Peak Forward Surge Current, $t_p=1.0\text{s}$	$I_{FSM}$	A
Power Dissipation	$P_D$	mW
Operating and Storage Junction Temperature	$T_J, T_{stg}$	${}^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	${}^\circ\text{C}/\text{W}$

**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

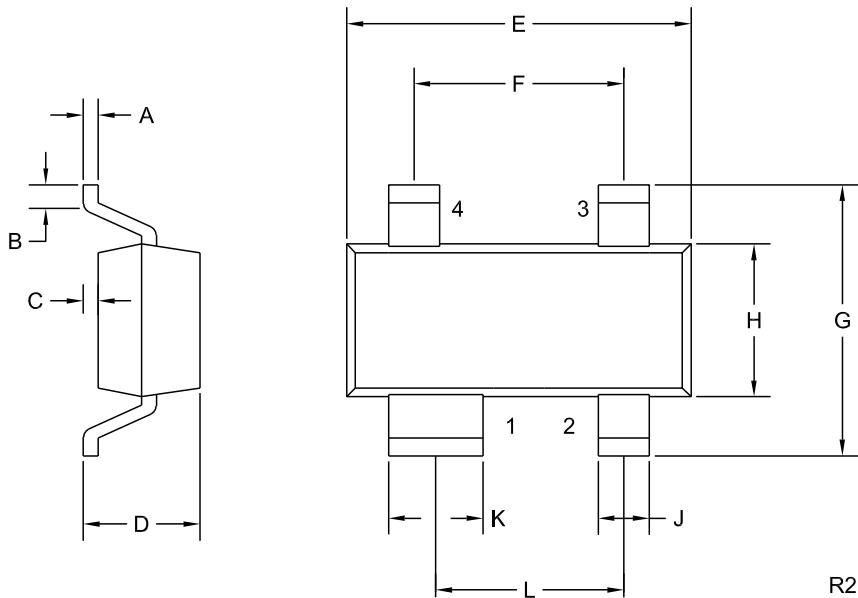
<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>MAX</b>	<b>UNITS</b>
$I_R$	$V_R=60\text{V}$	100		nA
$I_R$	$V_R=60\text{V}, T_A=150^\circ\text{C}$	100		$\mu\text{A}$
$I_R$	$V_R=75\text{V}$	10		$\mu\text{A}$
$V_F$	$I_F=10\text{mA}$	0.75		V
$V_F$	$I_F=200\text{mA}$	1.0		V
$V_F$	$I_F=500\text{mA}$	1.25		V
$C_T$	$V_R=0, f=1.0\text{MHz}$	2.5		pF
$t_{rr}$	$I_F=I_R=400\text{mA}, I_{rr}=40\text{mA}, R_L=100\Omega$	6.0		ns
$Q_s$	$I_F=10\text{mA}, V_R=5.0\text{V}, R_L=500\Omega$	50		pC
$V_{FR}$	$I_F=400\text{mA}, t_f=30\text{ns}$	1.2		V
$V_{FR}$	$I_F=400\text{mA}, t_f=100\text{ns}$	1.5		V

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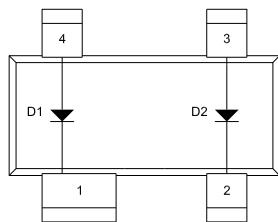
SURFACE MOUNT  
DUAL, ISOLATED HIGH CURRENT  
SILICON SWITCHING DIODES



SOT-143 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:

- 1) CATHODE D1
- 2) CATHODE D2
- 3) ANODE D2
- 4) ANODE D1

MARKING CODE: L51 or WL5

SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	MIN	MAX
A	0.003	0.006	0.08	0.15
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	-	0.045	-	1.14
E	0.110	0.120	2.79	3.04
F	0.075	-	1.90	-
G	-	0.098	-	2.50
H	0.047	0.055	1.19	1.40
J	0.014	0.020	0.36	0.50
K	0.030	0.037	0.76	0.93
L	0.067	-	1.70	-

SOT-143 (REV: R2)

R7 (25-August 2010)