

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

	SYMBOL		UNITS
Continuous Reverse Voltage	V_R	60	V
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
Continuous Forward Current	I_F	200	mA
Peak Repetitive Forward Current	I_{FRM}	600	mA
Forward Surge Current, $t_p=1 \mu\text{s}$	I_{FSM}	4.0	A
Forward Surge Current, $t_p=1 \text{ s}$	I_{FSM}	1.0	A
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	357	$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=60\text{V}$		100	nA
I_R	$V_R=60\text{V}, T_A=150^\circ\text{C}$		100	μA
I_R	$V_R=75\text{V}$		10	μA
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}	$I_F=I_R=400\text{mA}, R_L=100\Omega, \text{Rec. to } 40\text{mA}$		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

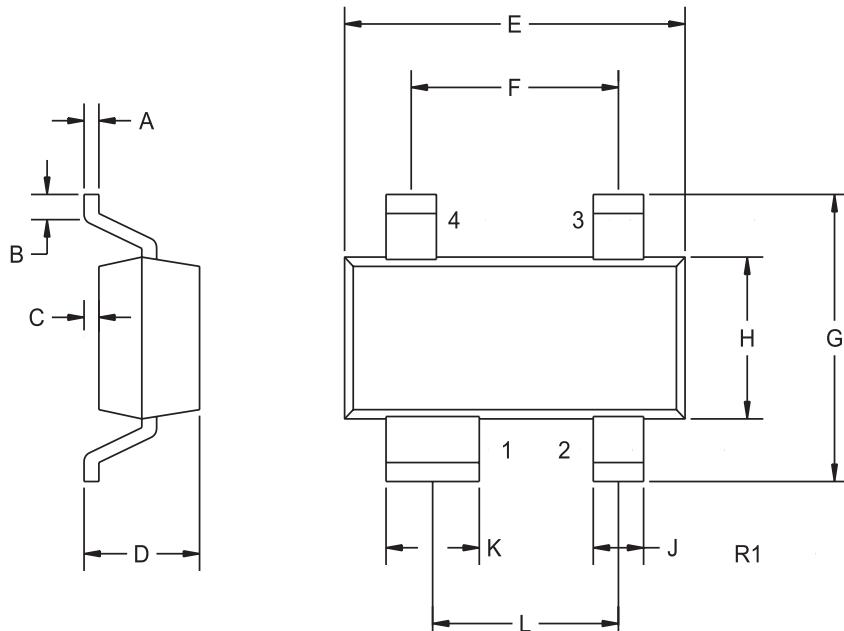
CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BAS56 type is an ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded surface mount package with isolated dual diodes, designed for high speed switching applications.

MARKING CODE: L51

SOT-143 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODE: L51

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.005	0.10	0.13
B	0.006	-	0.15	-
C	0.003	0.005	0.08	0.13
D	0.037	0.043	0.94	1.09
E	0.110	0.118	2.79	3.00
F	0.079		2.01	
G	-	0.098	-	2.49
H	0.047	0.051	1.19	1.30
J	0.014	0.018	0.36	0.46
K	0.030	0.033	0.76	0.84
L	0.071		1.80	

SOT-143 (REV: R1)

R3 (13-November 2002)