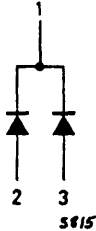


SOT23 SILICON PLANAR
HIGH SPEED SWITCHING DIODES

HD2A
HD3A
HD4A

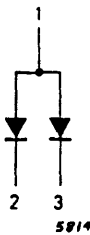
PIN CONFIGURATIONS:



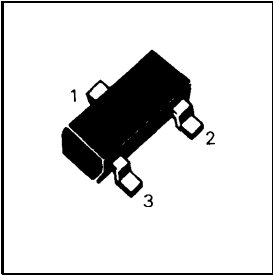
HD2A
(Common Cathode)



HD3A
(Single Diode)



HD4A
(Common Anode)



PARTMARKING DETAILS:

HD2A – 5D
HD3A – 4D
HD4A – 7D

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V_R	75	V
Forward Current	I_F	100	mA
Power Dissipation at $T_{amb} = 25^{\circ}C$	P_{TOT}	330	mW
Operating and Storage Temperature Range	$tj:tstg$	-55 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (at $T_j = 25^{\circ}C$ unless otherwise stated)

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS
Breakdown Voltage	V_{BR}	85		V	$I_R = 100\mu A$
Forward Voltage	V_F	0.5	0.715 1.0	V V	$I_F = 1\text{ mA}$ $I_F = 10\text{ mA}$
Reverse Current	I_R		1.0 60	μA μA	$V_R = 75\text{ V}$ $V_R = 75\text{ V}, T_J = 125^{\circ}C$
Total Capacitance	C_T		4	pF	$V_R = 0, f = 1\text{ MHz}$
Reverse Recovery Time	t_{rr}	$T_{yp.}$ 6		ns	$I_F = 10\text{ mA}, I_R = 10\text{ mA}$ $I_R = 1\text{ mA}$