

General Purpose Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value						Units			
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ $T_A = 75^{\circ}C$	3.0							A		
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200					A				
T _{stg}	Storage Temperature Range	-55 to +150						°C			
TJ	Operating Junction Temperature	-55 to +150					°C				

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	6.25	W
R _{. JA}	Thermal Resistance, Junction to Ambient	20	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Device								Units
			5401	5402	5403	5404	5405	5406	5407	5408	
V _F	Forward Voltage @ 3.0 A		1.2								V
I _{rr}	Maximum Full Load Reverse Current, Full Cycle $T_A = 105^{\circ}C$	0.5					mA				
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$		5.0 500						uA uA		
C _T	Toatal Capacitance V _R = 4.0 V, f = 1.0 MHz	30			pF						

. 2001 Fairchild Semiconductor Corporation

1N5400-1N5408



. 2001 Fairchild Semiconductor Corporation

1N5400-1N5408, Rev C1, June 2006

TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx™ FAST® ActiveArray™ FASTr™ Bottomless™ FPS™ Build it Now[™] FRFET™ CoolFET™ GlobalOptoisolator™ GTO™ CROSSVOLT™ DOME™ HiSeC™ **EcoSPARK**[™] I²C™ E²CMOS™ i-Lo™ EnSigna™ ImpliedDisconnect[™] FACT™ IntelliMAX™ FACT Quiet Series™ Across the board. Around the world.™ The Power Franchise[®] Programmable Active Droop[™]

ISOPLANAR™ LittleFET™ MICROCOUPLER™ MicroFET™ MicroPak™ MICROWIRE™ MSX™ MSXPro™ OCX™ OCX™ OCXPro™ OCX™ OCXPro™ OPTOLOGIC[®] OPTOPLANAR™ PACMAN™ POP™ Power247™

PowerEdgeTM PowerSaverTM PowerTrench[®] QFET[®] QSTM QT OptoelectronicsTM Quiet SeriesTM RapidConfigureTM RapidConnectTM µSerDesTM ScalarPumpTM SILENT SWITCHER[®] SMART STARTTM SPMTM StealthTM SuperFETTM SuperSOT^{TM-3} SuperSOT^{TM-6} SuperSOT^{TM-8} SyncFETTM TCMTM TinyLogic[®] TINYOPTOTM TruTranslationTM UHCTM UhIFETTM UltraFET[®] VCXTM WireTM

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Definition of Terms								
Datasheet Identification	Product Status	Definition						
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.						
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.						
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.						
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.						

PRODUCT STATUS DEFINITIONS Definition of Terms

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes Incorporated manufacturer:

Other Similar products are found below :

MMSZ5232BQ-13-F ZXSC100N8TA AP1086K50L-13 MBRB1530CT-T AP1507-D5L-13 DMS3015SSS-13 ZXBM2004Q16TC 1N5400-T ZXMP2120G4TA PI7C9X111SLBFDEX AP431AVL-A AP1117IDG-13 DGD2104AS8-13 DGD2103AS8-13 DGD2103S8-13 ZXBM2004JA16TC ZXCL5213V30H5TA DMN63D1LDW-7 AL1677-20BS-13 PI74AVC164245AAEX DMP3065LVT-7 DMP2160UW-7 PD3Z284C27-7 PI6CV304WE PAM2863EV1 SB560-T PAM2804EV1 PAM2841EV1 AL5811EV1 AL9901EV2 AL9910AEV2 AP8802EV1 AL1794EV1 BZX84C5V1TS-7-F 1N5402-T ZMR330FTA PI7C9X20505GPBNDE DMC2053UVT-7 AP63205WU-EVM B520C-13-F KBJ608G 1N5404-B DFLT48A-7 AL5811EV2 AL5812EV3 AL8807EV2 AL9901EV1 AL8807EV4 AL8807EV3 AL5890-10P1-13