2A01 THRU 2A07

GENERAL PURPOSE PLASTIC RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 2.0 Amperes

Features

- Diffused junction
- · High current capability and low forward voltage drop
- Surge overload rating to 70A peak



Dimensions in mm

DO-15

Mechanical Data

- Case: Molded plastic
- Terminates: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Mounting position: Any
- Marking: Type number

Absolute Maximum Ratings and Characteristics

Ratings at 25[°]C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	2A01	2A02	2A03	2A04	2A05	2A06	2A07	Units
Maximum peak repetitive reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum working peak reverse voltage	V _{RWM}	50	100	200	400	600	800	1000	Volts
Maximum DC blocking voltage	V _R	50	100	200	400	600	800	1000	Volts
Maximum RMS reverse voltage	V _{R(RMS)}	35	70	140	280	420	560	700	Volts
Maximum average rectified output current ⁽¹⁾ @T _A =55 [°] C	Ι _ο	2							Amps
Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	70						Amps	
Maximum forward voltage @ I _F = 2A	V _{FM}	1.1						Volts	
Maximum peak reverse current $@T_A = 25$ °Cat rated DC blocking voltage $@T_A = 100$ °C	I _{RM}	5 50							μΑ μΑ
I ² t rating for fusing (t<8.3ms)	l ² t	17.5							A ² s
Typical junction capacitance ⁽²⁾	CJ	15						pF	
Typical thermal resistance junction to ambient ⁽¹⁾	$R_{ ext{ heta}JA}$	60							K/W
Operating and Storage temperature range	T _J , T _S	-65 to+150							OO

Notes: 1.Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1MHz and applied reverse voltage of 4V DC









(Subsidiary of Semtech International Holdings Limited, acompany listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated : 20/06/2003

2A01 THRU 2A07



NUMBER OF CYCLES AT 60 Hz















Dated : 20/06/2003