# 2A01 THRU 2A07

# **General Purpose Plastic Rectifiers** Reverse Voltage - 50 to 1000 V Forward Current – 2.0 A

## Features

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

### **Mechanical Data**

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

### Ab

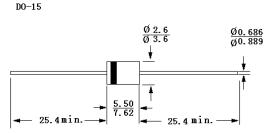
Absolute Maximum Ratings and Characteristics									
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.									
	Symbols	2A01	2A02	2A03	2A04	2A05	2A06	2A07	Units
Maximum peak repetitive reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum working peak reverse voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage	V <sub>R</sub>	50	100	200	400	600	800	1000	V
Maximum RMS reverse voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Maximum average rectified output current <sup>(1)</sup> $@T_A=55$ $^{\circ}C$	Ι <sub>Ο</sub>	2						А	
Non-repetitive peak forward surge current 8.3 ms single									
half sine-wave superimposed on rated load (JEDEC	I <sub>FSM</sub>	70							A
method)	M	11							V
Maximum forward voltage @ $I_F = 2A$	$V_{FM}$	1.1							
Maximum peak reverse current $@T_A = 25 \degree C$	I <sub>RM</sub>	5							μA
at rated DC blocking voltage $@T_A = 100^{\circ}C$	· KIWI	50							μA
I <sup>2</sup> t rating for fusing (t<8.3ms)	l <sup>2</sup> t	17.5							A <sup>2</sup> s
Typical junction capacitance <sup>(2)</sup>	CJ	15							pF
Typical thermal resistance junction to ambient <sup>(1)</sup>	$R_{ hetaJA}$	60							K/W

T<sub>J</sub>, T<sub>Stg</sub>

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

Operating and Storage temperature range



Dimensions in mm

-65 to+150



°C

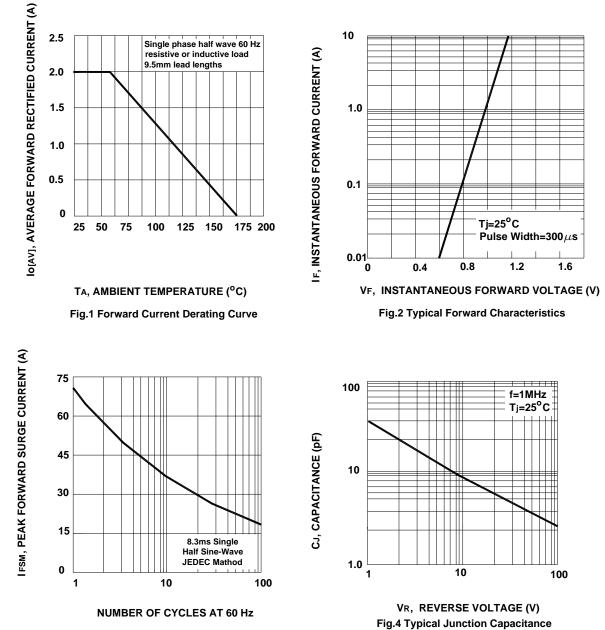


Fig.3 Max Non-Repetitive Peak Forward Surge Current

