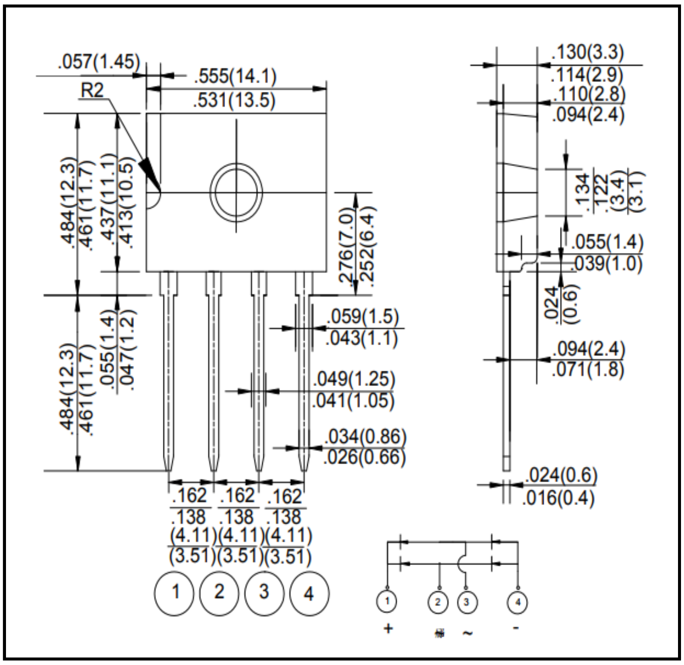
君品科技
JUNPINKEJI

D2UB05 thru D2UB100

2.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifiter Reverse Voltage 50V to 1000V

D3K



Features

- ●Glass passivated junction
- ●The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- ●Suge overload ratings to 80 amperes peak
- ●Ideal for printed circuit board application
- ●Solder dip 275 °C max. 7 s, per JESD 22-B106

Mechanical Data

Case:Molded plastic

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Maximum Ratings & Thermal Characteristics

Dimensions in inches and (milimeters)

Rating at 25℃ ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.
For Capacitive load derate current by 20%

Parameter		Symbol	D2UB05	D2UB10	D2UB20	D2UB40	D2UB60	D2UB80	D2UB100	unit
Maximum repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	V
Average rectified output current @60Hz sine wave, R-load	With heatsinkTc =140℃	IF(AV)	2.0							A
	Without heatsinkTa =29℃		1.2							
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		IFSM	80							A
Rating for fusing(t<8.3ms)		I^2t	33							A^2sec
Maximum instantaneous forward voltage drop per leg at1.2A		VF	1.05							V
Typical thermal resistance to ambient (without heatsink)		$R_{\theta JA}$	37							℃/w
Typical thermal resistance to case (with heatsink)(Note1)		$R_{\theta JC}$	1.5							℃/w
Typical thermal resistance to lead (without heatsink)		$R_{\theta JL}$	5.5							℃/w
Mounting torque(Suggests 045~0.65)		Tor	Rating Torque:0.8(Suggests 045~0.65)							N.m
Maximum DC reverse current at rated DC blocking voltage per element	@T_J=25℃	IR	5							μA
	@T_J=125℃		500							
Operating junction temperature range		TJ,	-55to+150							℃
Stroage temperature range		TSTG	-55to+150							℃

Notes: (1)Device mounted on 50mm*50mm*1.6mm Cu plate heatsink.
(2)The typical data above is for reference only

Rating and Characteristic Curves(TA=25℃ Uniless otherwise noted)

FIG.1-DERATING CURVE
FOR

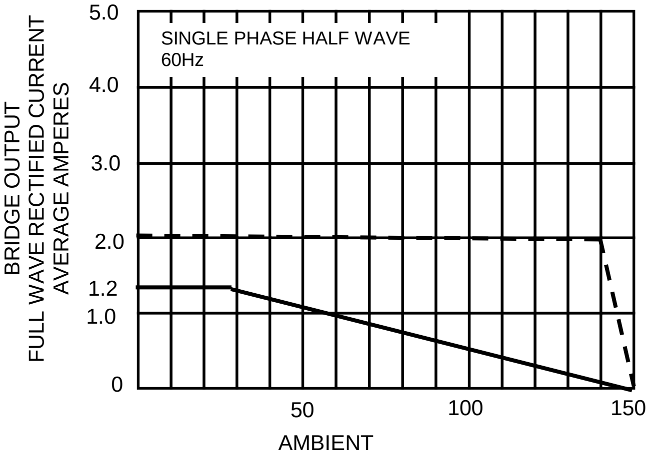


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

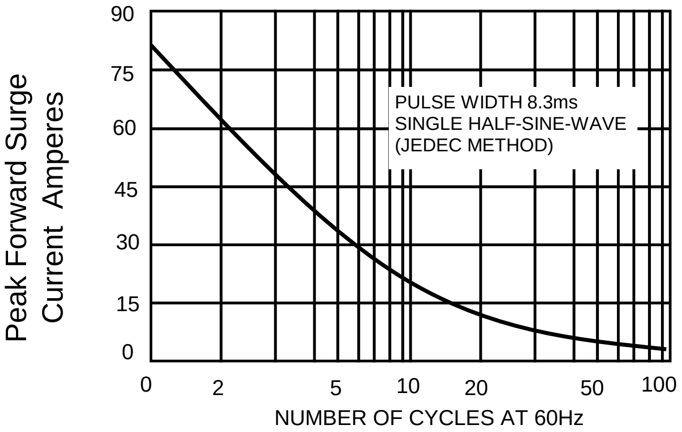


FIG.3-TYPICAL REVERSE
CHARACTERISTICS

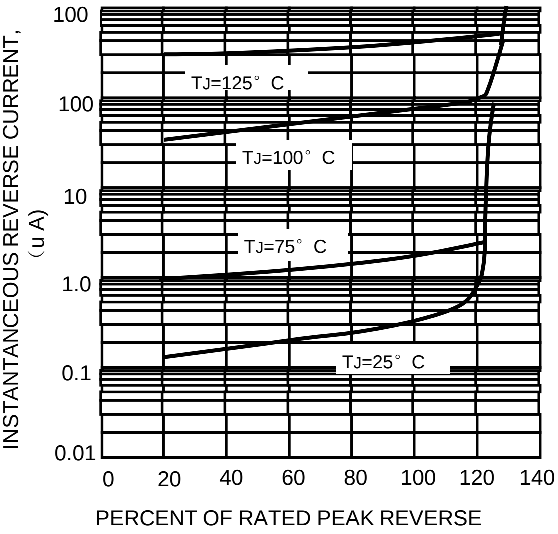


FIG.4-TYPICAL FORWARD CHARACTERISTICS