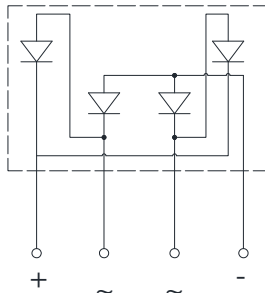
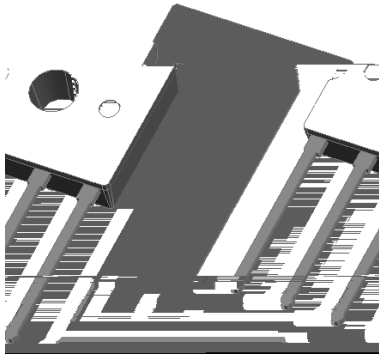


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- Package:** D3K
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:** As marked on body

Maximum Ratings (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	D2UB05A	D2UB10A	D2UB20A	D2UB40A	D2UB60A	D2UB80A	D2UB100A
Device marking code			D2UB05A	D2UB10A	D2UB20A	D2UB40A	D2UB60A	D2UB80A	D2UB100A
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink T _C =140	I _O	A	2.0					
	Without heatsink T _a =25			1.2					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	90						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			180						
Current squared time @1ms t 8.3ms T _j =25, Rating of per diode	I ² t	A ² s	33						
Storage temperature	T _{stg}		-55 ~ +150						
Junction temperature	T _j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	V _{dis}	KV	2						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						



D2UB05A THRU D2UB100A

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D2UB05A	D2UB10A	D2UB20A	D2UB40A	D2UB60A	D2UB80A	D2UB100A
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=1.0A$					1.0		
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$					5		
			$T_j=125$					100		
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C					25		

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	D2UB05A	D2UB10A	D2UB20A	D2UB40A	D2UB60A	D2UB80A	D2UB100A
Thermal resistance	Between junction and ambient, Without heatsink	R_{J-A}	$^{\circ}C/W$					55.0		
	Between junction and case, With heatsink	R_{J-C}						1.5		

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D2UB05A - D2UB100A	B1	Approximate 1.358	25	1500	6000	TUBE

Characteristics (Typical)

FIG1: I_o - T_c Curve

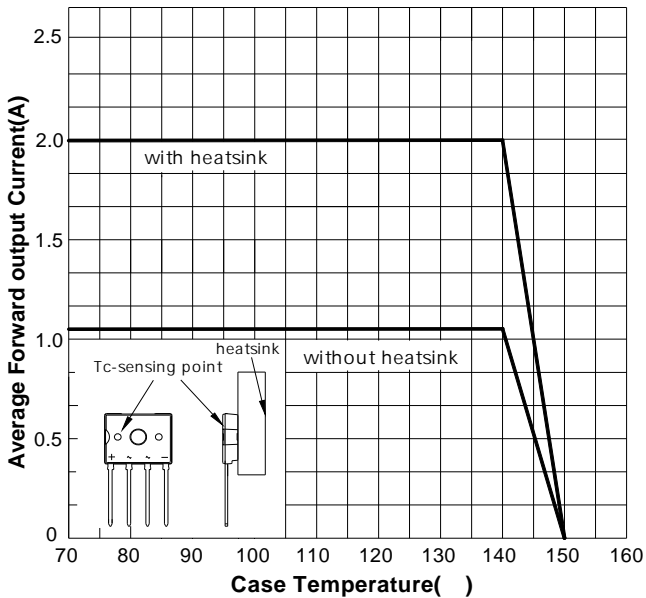
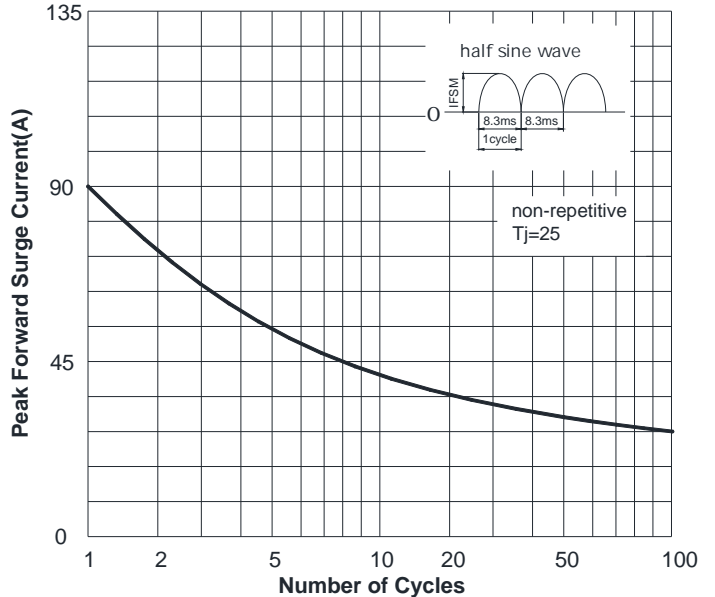
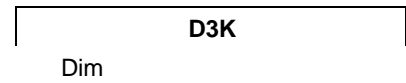


FIG2: Surge Forward Current Capability





Outline Dimensions





D2UB05A THRU D2UB100A

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