

CURRENT5.0 AmpereVOLTAGE RANG50 to 1000 Volts

UD5KB05 THRU UD5KB100

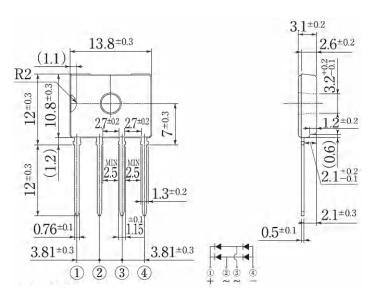
D3K

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



All Dimensions in mm

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	UD5K BA05	UD5K BA10	UD5K BA20	UD5K BA40	UD5K BA60	UD5K BA80	UD5K BA100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A	= 50°C	lo	5.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	125							A
Forward Voltage (per element) @IF	2.5 A	VFM	1.05					V		
	₄ = 25°C = 100°C	IRM 10 500					μA			
Typical Thermal Resistance (Note 3)		RθJA	35							K/W
Operating and Storage Temperature Range		Tj, TSTG	-55 to +150							°C

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

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.

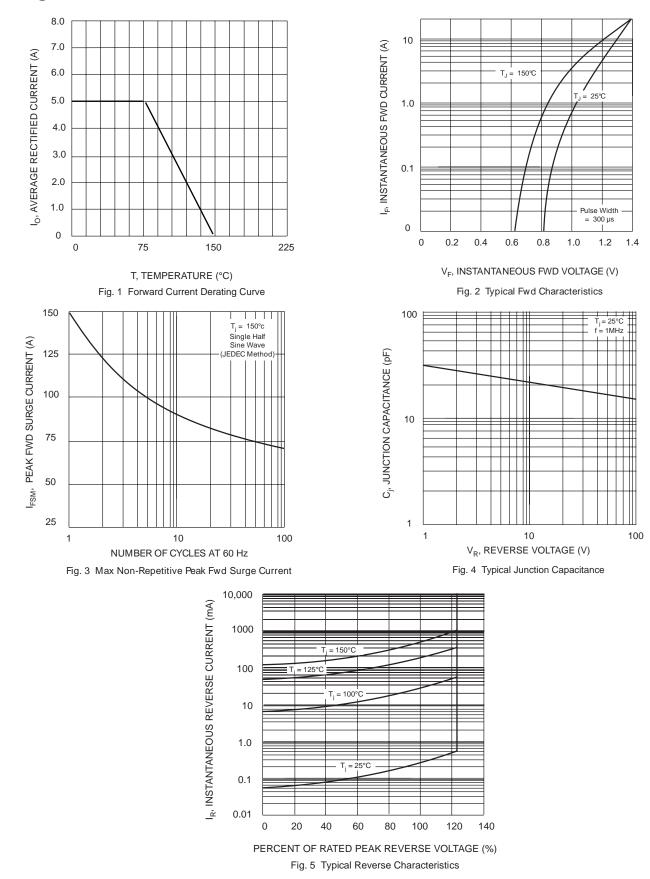


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Rating and Characteristic Curves (TA=25°C Unless otherwise noted)