Zhangzhou Fuzheng Electronic Co., Ltd.

KK500A

Manufacturer’s technical data extract · Fast thyristor (disc type)

Model	Voltage class	Catalogue row voltage range (VDRM / VRRM)
KK500A1600V	1600 V	600–2500 V
KK500A1800V	1800 V	600–2500 V
KK500A2000V	2000 V	600–2500 V
KK500A2200V	2200 V	600–2500 V
KK500A2500V	2500 V	600–2500 V
KK500A3000V	3000 V	600–3000 V

Technical details

Current class	500 A
Weight	0.3 kg
Cooling	Double-sided cooling
Package	Disc-type ceramic package
Turn-off time (tq)	16–35 μs
Critical rate of rise of off-state voltage (dv/dt)	500 V/μs
Repetitive peak forward and reverse current (IDRM / IRRM)	50 mA
Trigger current (IGT)	40–250 mA (25 °C)
Trigger voltage (VGT)	0.9–2.5 V (25 °C)
Holding current (IH)	20–400 mA (25 °C)
Peak on-state voltage / test current (VTM / ITM)	3.15 V / 1500 A (25 °C)
Thermal impedance (Rth(j-hs))	0.035 °C/W
Maximum rated junction temperature (Tjm)	115 °C
Mounting force	15–20 kN
Catalogue outline references	A-6,45
Catalogue recommended heatsinks	SS12

Parameter scope and test conditions

Catalogue reference values for the matching current rating. IGT, VGT, IH and VTM/ITM are tested at 25 °C; other electrical parameters are tested at Tj = 115 °C. The outline and heatsink must match the ordered configuration.