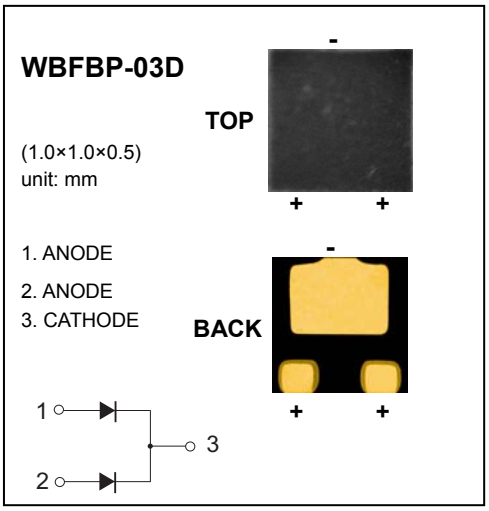
WBFBP-03D Plastic-Encapsulate Diodes

DK4448CLLD03 SWITCHING DIODE



DESCRIPTION

Epitaxial planar silicon diode

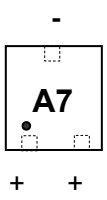
FEATURES

Fast Switching Speed
Ultra-Small Surface Mount Package
For General Purpose Switching Applications
High Conductance
Lead Free Product

APPLICATION

High Conductance Ultra Fast Diode
For Portable Equipment:(i.e. Mobile Phone,MP3, MD,CD-ROM, DVD-ROM, Note Book PC, etc.)

MARKING: **A7**



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage **Working Peak Reverse Voltage** **DC Blocking Voltage**	V_{RRM} V_{RWM} V_R	80	V
RMS Reverse Voltage	$V_{R(RMS)}$	57	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	I_O	250	mA
Peak Forward Surge Current @t=1.0μs **@ t=1.0s**	I_{FSM}	4.0 2.0	A
Power Dissipation	P_D	100	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	1250	℃/W
Storage Temperature	T_{STG}	-55 ~+150	℃

Electrical Ratings @Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	80			V	I_R=2.5μA
Forward voltage	V_{F1}	0.62		0.72	V	I_F=5mA
	V_{F2}			0.855	V	I_F=10mA
	V_{F3}			1.0	V	I_F=100mA
	V_{F4}			1.25	V	I_F=150mA
Reverse current	I_{R1}			0.1	μA	V_R=70V
	I_{R2}			25	nA	V_R=20V
Capacitance between terminals	C_T			3.5	pF	V_R=6V,f=1MHz
Reverse recovery time	t_{rr}			4	ns	V_R=6V,I_F=5mA