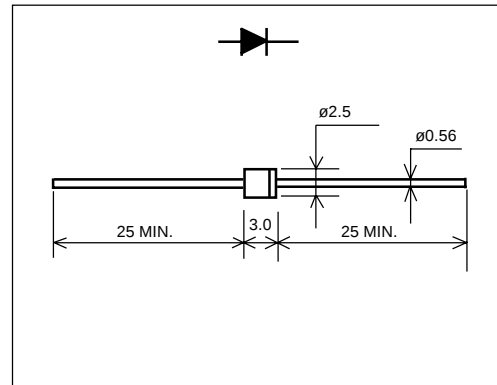


ERA83-004 (1A)

(40V / 1A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



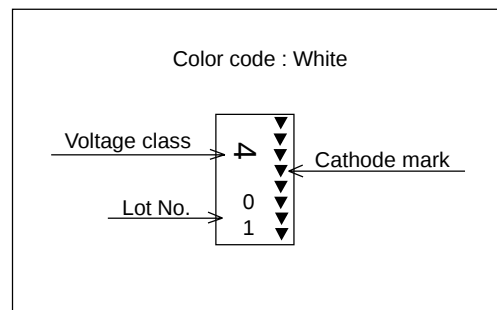
■ Features

- Low V_F
- Super high speed switching
- High reliability by planer design
- Ultra small package, possible for 5mm pitch automatic insertion

■ Applications

- High speed switching

■ Marking



■ Maximum ratings and characteristics

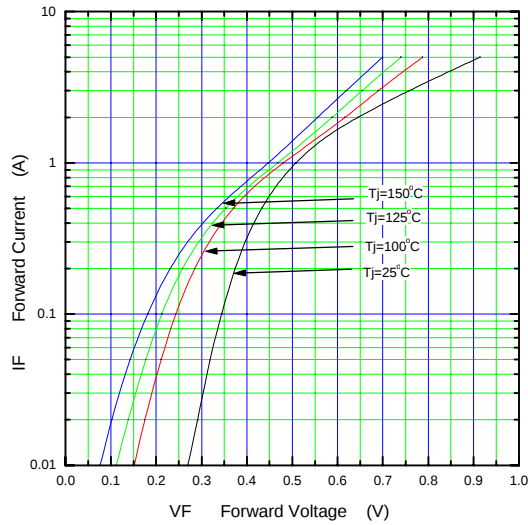
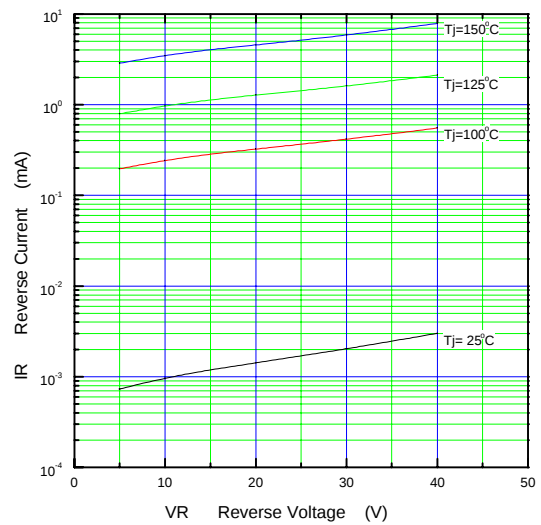
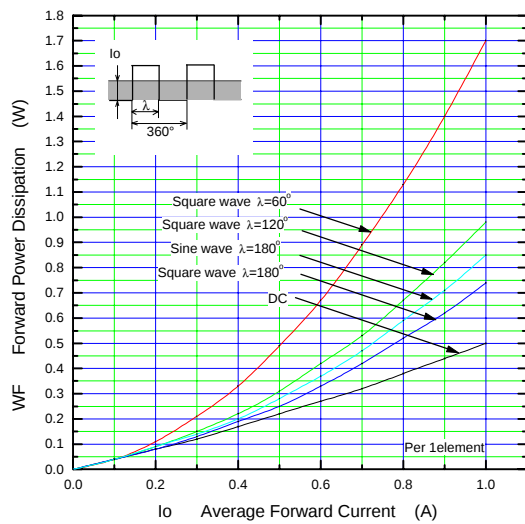
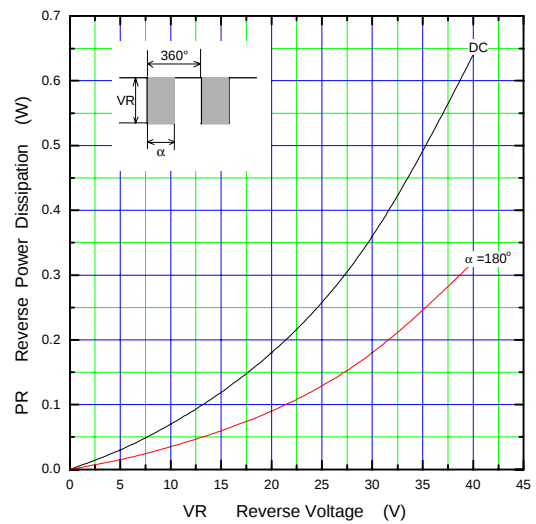
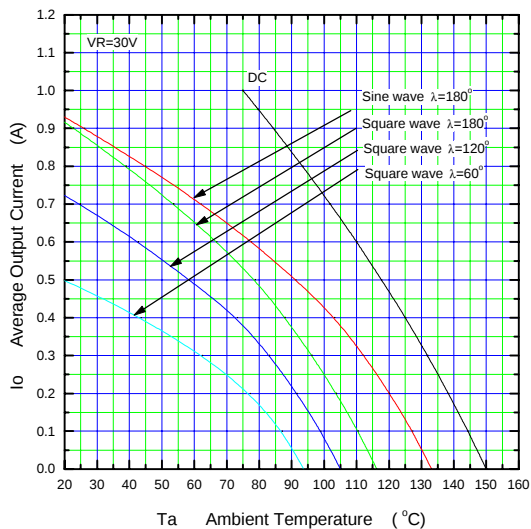
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	$t_w=500ns$, $duty=1/40$	48	V
Average forward current	$I_{F(AV)}$	Square wave, $duty=1/2$ $T_I=115^{\circ}C$	1.0*	A
Surge current	I_{FSM}	Sine wave 10ms	50	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

* Mounted on printed circuit board (10 x 10mm)

- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=1A$	0.55	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	2.0	mA

■ Characteristics**Forward Characteristic (typ.)****Reverse Characteristic (typ.)****Forward Power Dissipation****Reverse Power Dissipation****Current Derating (I_o - T_a)****Current Derating (I_o - T_l)**