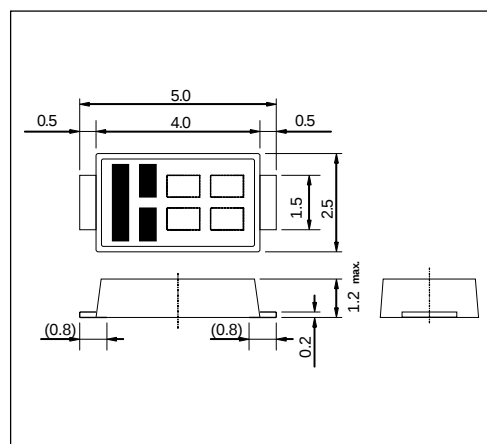


SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



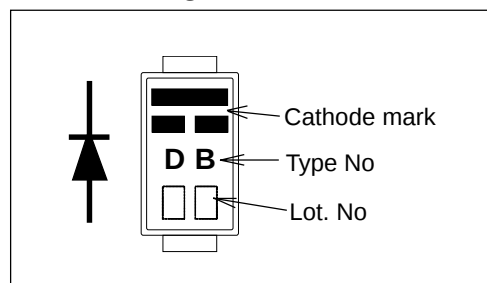
■ Features

- Surface-mount device
- Low V_F
- Super high speed switching
- High reliability by planer design

■ Applications

- High speed switching

■ Marking



■ Maximum ratings and characteristics

- Absolute maximum ratings (at $T_c=25^{\circ}\text{C}$ unless otherwise specified)

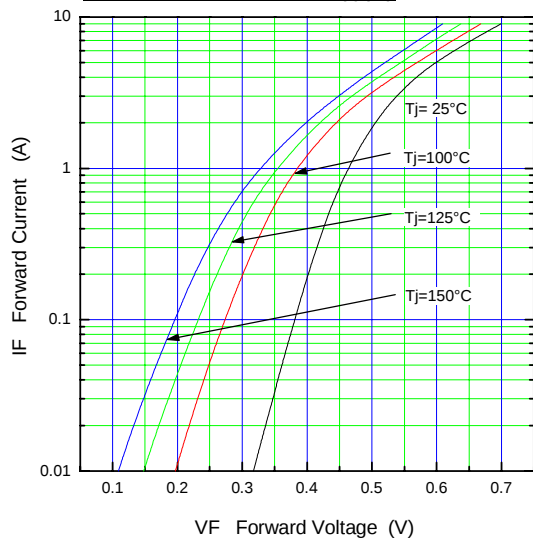
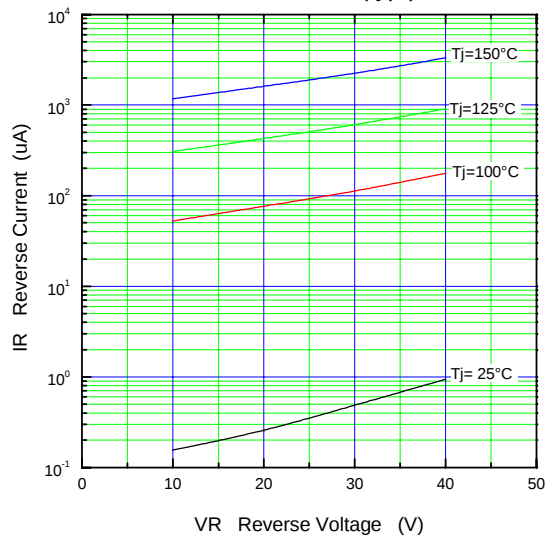
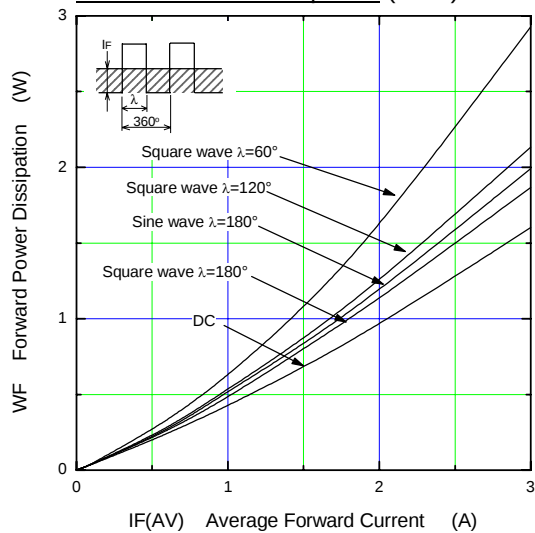
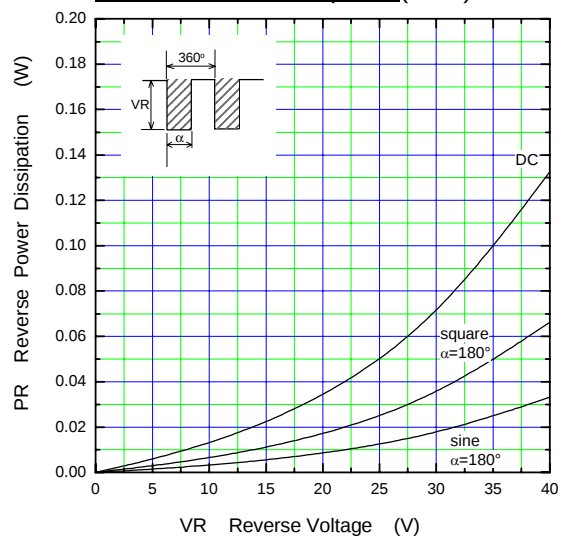
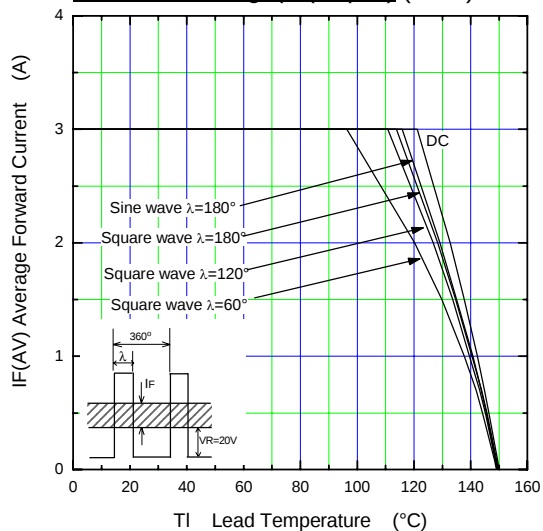
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Average output current	I_o	Square wave duty=1/2 $T_l=116^{\circ}\text{C}$	3.0	A
Surge current	I_{FSM}	Sine wave 10ms, 1shot	110	A
Operating junction temperature	T_j		150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-55 to +150	$^{\circ}\text{C}$

- Electrical characteristics (at $T_c=25^{\circ}\text{C}$ unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=3.0\text{A}$	0.59	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	0.1	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	18	$^{\circ}\text{C/W}$

- Mechanical characteristics

Approximate mass	0.035	g
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■ Characteristics**Forward Characteristic (typ.)****Reverse Characteristic (typ.)****Forward Power Dissipation (max.)****Reverse Power Dissipation (max.)****Current Derating ($I_{F(AV)}-T_l$) (max.)****Junction Capacitance Characteristic (typ.)**