

**MAXIMUM RATINGS** (at  $T_A = 25^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	CONDITIONS	Max	UNITS
Continuous Forward Current	$I_F$	single diode loaded (note 1)	215	mA
		double diode loaded (note 1)	125	
Non-repetitive Peak Forward Current	$I_{FSM}$	square wave, $T_j = 25^\circ\text{C}$ prior to surge		
		$t = 1\mu\text{s}$	4	Amps
		$t = 1\text{ms}$	1	Amps
		$t = 1\text{s}$	0.5	Amps
Total Power Dissipation	$P_{TOT}$	$T_{amb} = 25^\circ\text{C}$	250	mW

Note: 1. Device mounted on an FR4 printed-circuit board.

# RATING AND CHARACTERISTIC CURVES ( BAW56 )

FIG. 1 - Maximum permissible continuous forward current as a function of ambient temperature

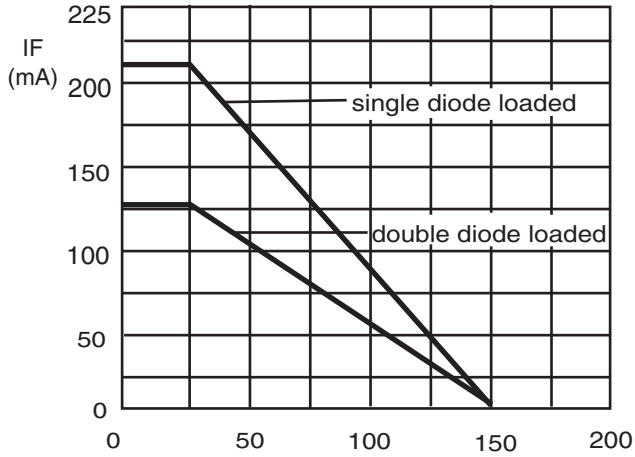


FIG. 2 - Forward current as a function of forward voltage

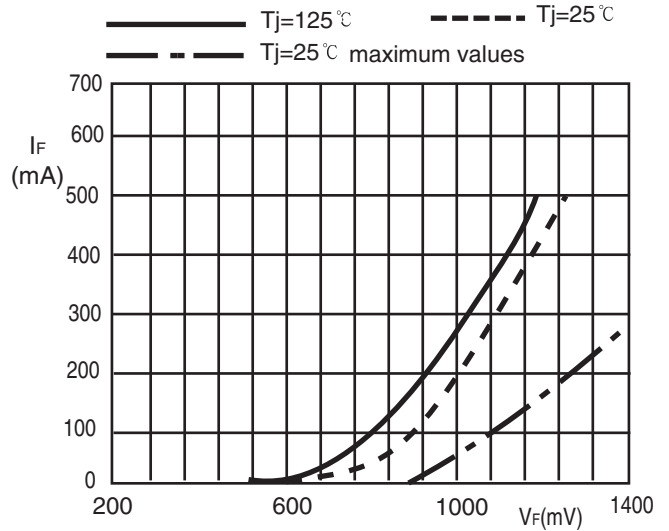


FIG. 3 - Maximum permissible non-repetitive peak forward current as a function of pulse duration

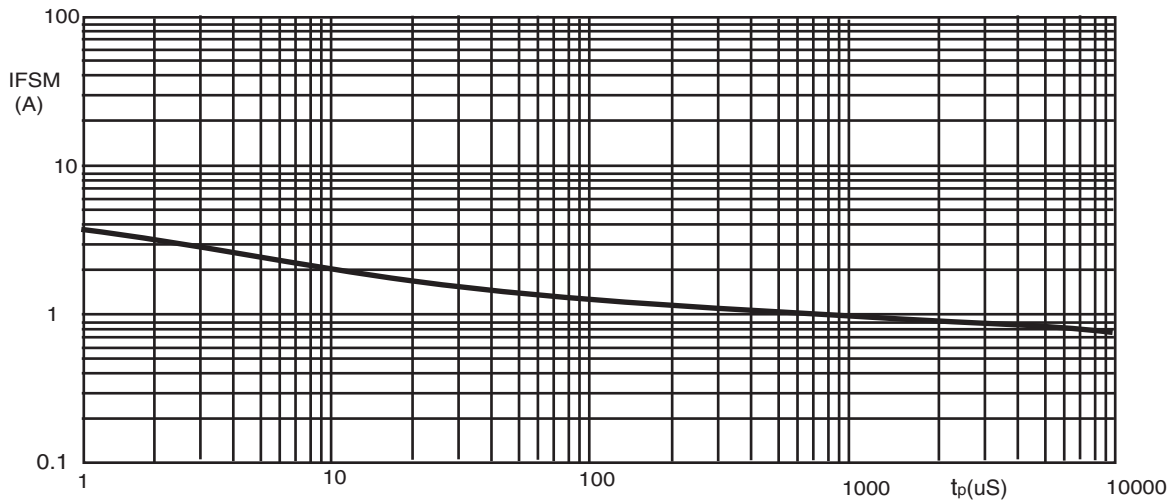


FIG. 4 - Reverse current as a function of junction temperature

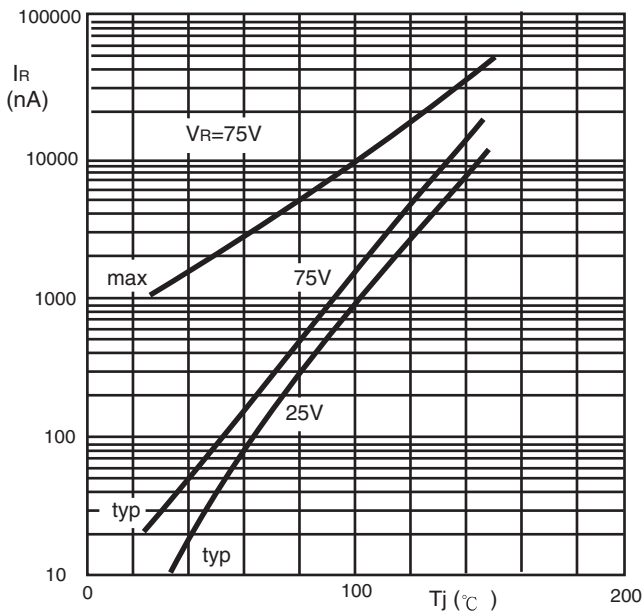
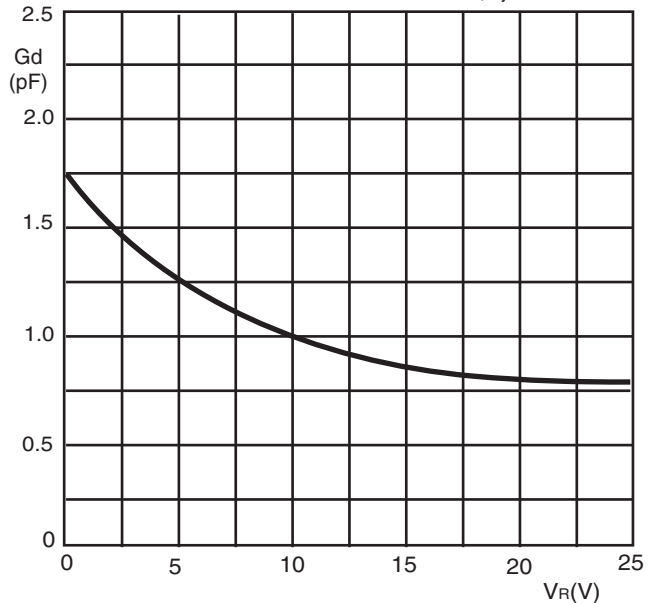


FIG. 5 - Diode capacitance as a function of reverse voltage ; typical values  $f=1\text{MHz}; T_j=25^\circ\text{C}$



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